

CIVILS

LANDSCAPING

AQUA

SPORT



WELCOME TO HAURATON

The new Mercedes-Benz museum in Stuttgart, the reconstructed Frauenkirche in Dresden and the Emirates stadium, home of the famous English football club Arsenal in London - these are all projects where innovative drainage solutions from HAURATON make sure that stormwater is drained away reliably and buildings are protected against decay. We are a family owned company which for the last 50 years have been successfully developing, producing and selling innovative drainage solutions all over the world. HAURATON offers individual solutions to all its customers - ranging from high-performance channels at airports, motorways and container stations to drainage systems for walk-on flat roofs and terraces. This individual approach is our strength as a family-owned and run company with a short line of decision and focussed on this sector of the market.



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THE RANGE FOR CIVIL ENGINEERING

 **hauraton**
IT'S RUNNING WELL



THE RANGE FOR CIVIL ENGINEERING APPLICATIONS

RELIABLE SYSTEMS WITH STRONG PERFORMANCE CHARACTERISTICS
FOR DRAINAGE INSTALLATIONS IN TRAFFIC AREAS - A LONG-TERM
SAFEGUARD FOR OUR MODERN INFRASTRUCTURE

Mobility is ever more important in our society. To meet that demand, we have built up one of the most modern infrastructure systems, including all modes of transport: road, rail, water and air. Only a well-performing transport infrastructure can guarantee the required mobility now and in the future. As building material suppliers, HAURATON has developed reliable systems with strong performance characteristics in order to contribute to the high quality of our infrastructure and its further development.

In close cooperation with architects, building contractors and building material suppliers we develop individual solutions that meet the most demanding design requirements. HAURATON provides highly qualified professional advice and technical support during the design phase as well as the construction phase. Decades of experience in the field of traffic area drainage and our innovative approach combine to provide the designer with the most reliable solutions.

Drainage concepts can be individually designed for customers, involving a diverse range of materials: fibre-reinforced concrete, ductile iron, steel, stainless steel or PE-PP materials. And of course it is also possible to combine materials for special duties. HAURATON products meet all common standards and regulations. To maintain a high level of quality, HAURATON cooperates with specialist institutes for external monitoring of products and internal processes based on regular quality checks - our customers' guarantee for reliable design and long-lasting solutions.



THE HAURATON SERVICE PACKAGE

4



BOLTLESS LOCKING SYSTEM **SIDE-LOCK** INNOVATION AT ITS HIGHEST TECHNICAL LEVEL

8



FASERFIX

FIBRE-REINFORCED CONCRETE FOR MAXIMUM LOADS

10



FASERFIX®SUPER KS

FASERFIX®SUPER

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST

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FASERFIX®BIG

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FASERFIX®POINT

POINT DRAINAGE WHERE IT IS REQUIRED

142



SPECIAL SOLUTIONS

SEE THE RESPECTIVE PRODUCT SECTIONS

THE HAURATON SERVICE PACKAGE

GOOD TEAMWORK IS THE BASIS FOR A PERFECT RESULT. HAURATON COOPERATES WITH ARCHITECTS AND ENGINEERS RIGHT FROM THE CONCEPTUAL STAGE AND OFFERS A FREE RANGE OF SERVICES.

INDIVIDUAL DESIGN SUPPORT

Designing solutions for the many and diverse demands in the field of surface drainage requires detailed knowledge, great expertise and extensive experience. Our experts, both in field sales as well as in the office, are fully trained to answer technical and product-specific questions to be able to provide you with competent and individual advice. We will support your individual building project from project-related tender documents through to production – even where the brief calls for unusual duties and design. We support you, even if a solution for your special drainage requirements cannot be found from our standard range of products – custom-built products to your specification are our strength. We will manufacture almost anything for you. Give us a call or send us an email! We are always available for you and look forward to answering your individual questions regarding drainage solutions.

LAYOUT PLANS

As well as hydraulic performance calculations we also produce site-related layout plans. The CAD-produced drawings show the exact location of drainage channels, including the positions of end caps, trash boxes and other fittings. In addition, we will produce a parts list with the designation and quantity of products required for the job. For the production of the layout plans we will need your site-specific details. We will produce the layout plans for you free of charge – why not make use of our service!

HYDRAULIC CALCULATIONS

The functionality of a drainage system depends to a large extent on the hydraulic performance of the drainage channels installed. In order to make it easier for you to make an informed decision about the type and route of the drainage channels we produce hydraulic performance calculations for your specific site. The program for determining the hydraulic performance of our drainage channels has been developed at the University of Prague. The staff in our CAD department just needs some site information such as the size of the area to be drained, surface covering, intensity of rainfall, type of channels, etc. Of course, this service is free of charge – just talk to one of our internal or field sales staff!



SECURITY FOR THE PLANNERS

HAURATON PROVIDES CUSTOMERS WITH THE BEST POSSIBLE BASIS FOR RELIABLE DESIGNS. OUR PRODUCTS AND PROCESSES ARE CONTINUALLY MONITORED AND ARE SUBJECT TO STRINGENT QUALITY REQUIREMENTS.

DIN EN 1433/CE-MARK HAURATON CHANNELS COMPLY WITH DIN V 19580/EN 1433

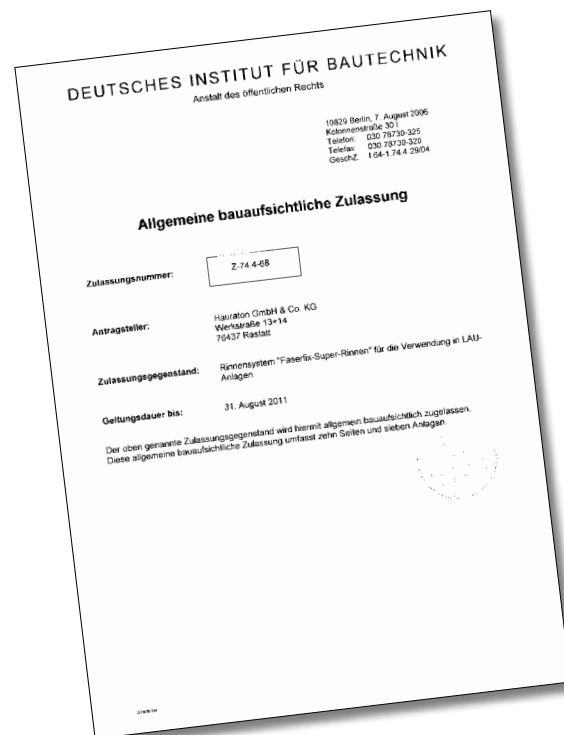
- ☐ high lateral strength without supporting grating, during transport and for the installation - including adjusting piece
- ☐ U-profiles for highly efficient drainage with self-cleaning effect
- ☐ simple and safe sealing via safety joint
- ☐ tongue and groove connection for precise installation
- ☐ FASERFIX SUPER KS 100 channels are fitted with 4 mm housing profiles and provide maximum safety
- ☐ maximum resistance to the effects of salt and weather, including frost
- ☐ different models for long drainage runs with different degrees of built-in fall
- ☐ built-in fall of 0.6 % for improved hydraulics and fast drainage speed
- ☐ large back-pressure volume through construction depths of up to 280 mm
- ☐ large selection of gratings for all types of applications and visual requirements

HAURATON offers the largest range of EN-compliant drainage channels.

QUALITY CERTIFICATION IN ACCORDANCE WITH DIN EN ISO 9001:2000

As one of the first companies in the building industry, HAURATON achieved quality certification in accordance with DIN EN ISO 9001 back in 1993. Since then, quality standards have been driven up continuously, including regular certification.

The quality requirements of DIN EN ISO 9001:2000 cover not only the products but the whole company, including development, design, production, assembly and customer service. HAURATON's quality management in accordance with DIN EN ISO 9001:2000 provides the highest degree of liability and safety to our customers.



STANDARDS, APPROVALS AND WARRANTY

HAURATON channels are not only certified in accordance with DIN EN 1433 but also with the considerably more stringent German DIN V 19580. CE mark, external monitoring and conformity statement are guarantees for the engineer that ensure the highest technical standard. The channels' resistance to frost and salt, their robust construction and ability to be sealed ensure that they will provide many years of service. HAURATON was one of the first manufacturers in the building industry to voluntarily offer a guarantee period of 5 years.

We also hold a General Building Control Approval by the DIBt (German Institute for Building Technology) for special applications in industrial locations where liquids that are hazardous to water as per § 19 WHG (Water Resources Act) are handled, stored or decanted, such as tank installations.

Channel systems covered by the approval:

FASERFIX SUPER channels, approval no. Z-74.4-68
FASERFIX BIG SL channels, approval no. Z-74.4-67
FASERFIX BIG BL channels, approval no. Z-74.4-66

GUGI-DUCTILE IRON MESH GRATINGS

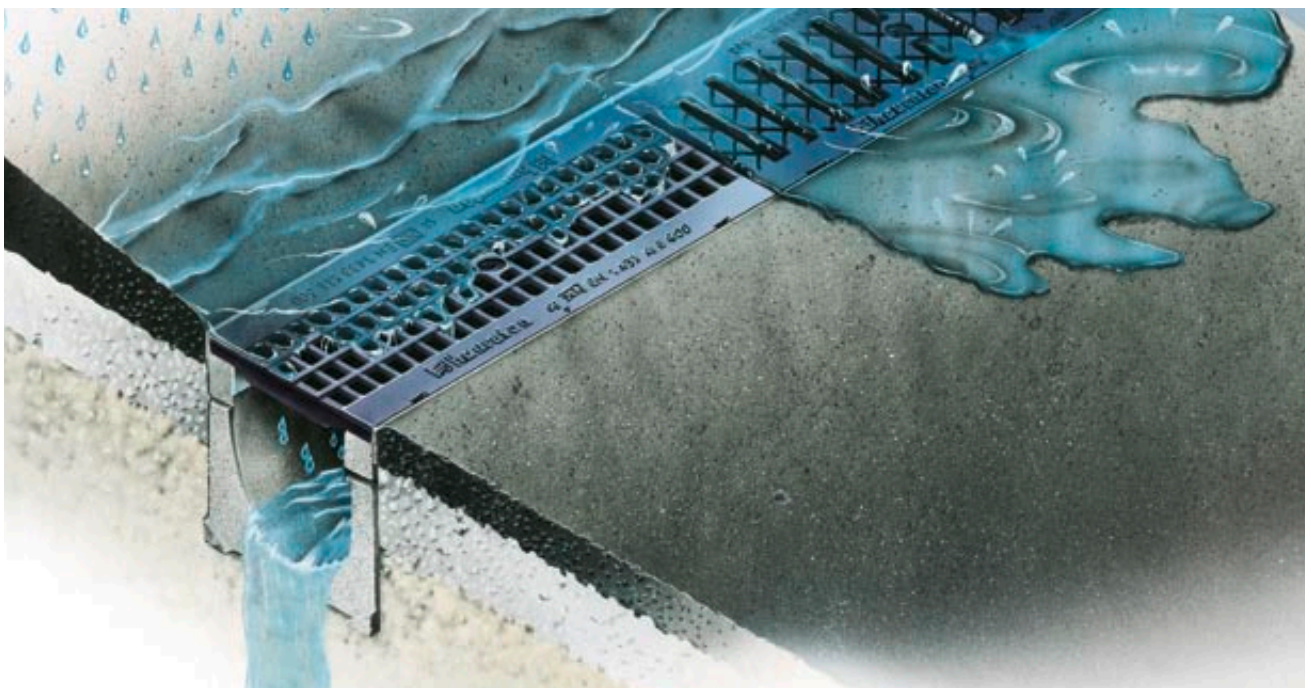
HAURATON WAS THE FIRST COMPANY TO INTRODUCE THE GUGI-DUCTILE IRON MESH GRATINGS TO THE MARKET AND HAS CREATED A PERFECT SYMBIOSIS OF HIGH-VOLUME DRAINAGE CAPACITY WITH ROBUST CONSTRUCTION.

THE BEST IN STRUCTURAL STRENGTH AND DRAINING PERFORMANCE

The GUGI-Ductile iron mesh grating is the ideal combination of large-volume drainage and high structural strength. HAURATON offers the GUGI-Ductile iron mesh grating with its FASERFIX and RECYFIX channels.

The geometry of the GUGI-Ductile iron mesh grating prevents water from flowing right across the grating. At the same time, the grating offers all the high qualities associated with ductile iron. In the GUGI grating, the web in both directions is more solid than that of other gratings, resulting in a significant improvement in stability.

GUGI-Ductile iron mesh gratings are available up to category F 900.



BOLTLESS LOCKING SYSTEM **SIDE-LOCK**

THE POWER OF INNOVATION AT THE HIGHEST TECHNICAL LEVEL.

THE TIME-SAVING REVOLUTION OF BOLTLESS LOCKING

SIDE-LOCK is a unique locking system that is fitted completely without accessory parts. Simply lay the grating into its housing on the channel and engage it by stepping on it. When you hear a 'click', the grating is in place, providing full road safety. In order to clean the channels, the grating can be levered up extremely fast using a simple tool (a pry bar or robust screwdriver). SIDE-LOCK thus saves 90 % of the time it takes to fix and release the gratings. SIDE-LOCK has been developed by HAURATON and is protected by patents.

CONVINCING TECHNOLOGY

The cross-section of the channels remains free allowing the surface water to flow away without restriction. SIDE-LOCK will also lock the gratings in longitudinal direction. This ensures that the gratings cannot 'travel' along the channels and remain reliably in position.

INTELLIGENT MULTI-FUNCTIONAL STEEL ANGLE HOUSING PROVIDES FLEXIBLE FIXING OPTIONS

SIDE-LOCK will lock the gratings to the channels providing full road safety. In the case of increased loads, particularly in areas of heavy traffic or where additionally safety is required, the gratings can also be bolted to the multi-functional steel angle housing or fixed with a locking handle, giving a degree of flexibility no other channel system can provide.

REMOVING A SIDE-LOCK GRATING



To unlock the grating, insert a flat-headed screwdriver at the marked point.

INSTALLATION



1. PUT SIDE-LOCK IN PLACE



2. STEP ON IT - 'CLICK' - READY!

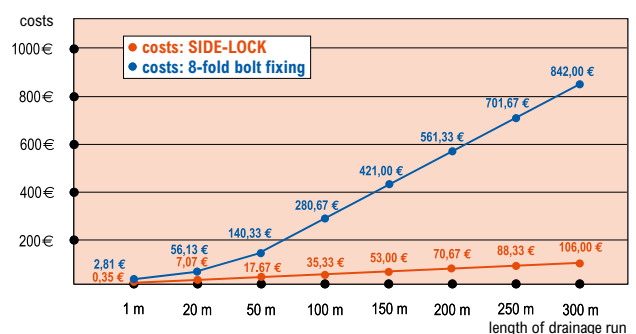
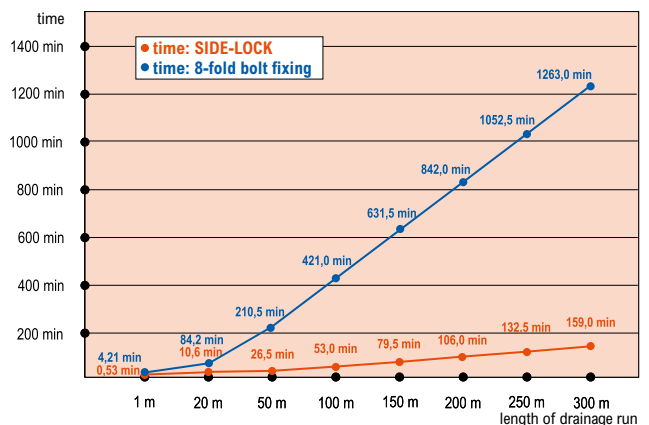


Ductile iron gratings can also be lifted with a pry bar.



PRACTICAL TEST: TOP EFFICIENCY IS ACHIEVED WITH THE SIDE-LOCK BOLTLESS LOCKING SYSTEM DEVELOPED BY HAURATON

A test demonstrates the advantage over conventional locking systems. In the test a maintenance routine of a channel run was simulated as it would be in practice and investigated to see how long it takes to lift a grating, lay it down beside the channel, pick it up and lock it again. The SIDE-LOCK boltless locking system was tested against a conventional system with 8-fold bolt fixing per linear metre. The results speak for themselves: with the SIDE-LOCK boltless locking system the described process took 31.8 seconds (= 0.53 minutes). The time recorded for the equivalent process, but using gratings with 8-fold bolt fixings, was 4 minutes and 12.6 seconds (= 4.21 minutes). That results in a time saving of 3 minutes and 40.8 seconds per linear metre when using SIDE-LOCK. The diagram shows this huge difference, which becomes even more obvious when you multiply the time factor with an hourly rate of EUR 40.00. Conclusion: users save time and money with SIDE-LOCK!



FASERFIX®

EXTREMELY ROBUST – IN ANY APPLICATION.

FIBRE-REINFORCED CONCRETE FOR THE MOST HEAVY-DUTY SERVICE.

A MATERIAL FOR ALL SITUATIONS

For a long time, drainage channels have been manufactured from conventional concrete. From the beginning of the seventies, HAURATON has been using fibre-reinforced concrete for channel production. By adding exactly dosed quantities of fibres, the strength of the concrete was increased significantly while at the same time reducing its weight. That made it possible to have significantly reduced wall thicknesses. Today, this fibre-reinforced concrete is the material used in all FASERFIX products.

LEARNING FROM NATURE

Even before the term 'bionics' became popularly known, HAURATON made use of this science in order to take a decisive step forwards in the development of its products. Bionics applies biological principles in technology, following nature's example. Plants and trees are compound fibre materials with cellulose fibres. Likewise, human and animal bones are formed from interlaced fibre bundles, which is how they achieve their great strength

BIOLOGY AND TECHNOLOGY

The fibre-reinforced concrete used in FASERFIX products follows the example of nature. Just as with trees, plants or bones, the fibres form a densely interwoven network that makes the reinforced concrete extremely strong at the same time, the fibres reduce the density of the material - which is therefore much lighter than traditional concrete.

PREPARED FOR ANY APPLICATION

Owing to its unique properties, FASERFIX is used for all kinds of applications. For example in heavy-load areas such as airports, industrial plants and filling stations. But also in areas with a high traffic volume such as motorways or trunk roads. And likewise, in various versions, in private and commercial applications.



HAURATON



COMPETITOR PRODUCT



Don't be fooled into believing that a V is the same as a U! Channels with V-profiles have been about for a long time; they are not an innovation. Many years ago, FASERFIX SUPER channels have already been manufactured in this profile in different nominal sizes.

FLOW RATE

Tests and hydraulic calculations have confirmed that channels with a U-shaped cross section have a draining capacity that is up to 30% greater than that of channels with a V-shaped cross section, assuming the same nominal width and construction height. Conversely that means that channels with a V-shape reach the limit of their capacity much sooner whilst the U-shaped channels will still have reserve capacity. The measured flow rate is the same for both shapes at each point within the channel; likewise the mean flow rate. So it is clear that the U shape has clear advantages over the V shape.

BETTER CLEANING EFFECT

Imagine that a certain amount of dirt has accumulated at the base of the channel. In the U-shaped channel the surface area for silt to build up is much greater than in the V-shaped channel. This is a clear indicator for the cleaning performance: whilst both types of channels feature equal flow rates, the U shape offers a greater surface of dirt to the water which carries the dirt away. The channel will clean itself quicker. An additional factor is that due to the increasing restriction of space towards the bottom of the V channel the layer of dirt can only grow upwards, which reduces the cross section available for the draining function.

FASERFIX® SUPER KS FASERFIX® SUPER

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY GOODS VEHICLES IN PUBLIC AREAS AND INDUSTRY.



AT A GLANCE

- ✓ Highest bending tensile strength
- ✓ Patented SIDE-LOCK boltless locking system
- ✓ Available with built-in fall
- ✓ With safety joint for easy sealing



FASERFIX® SUPER KS FASERFIX® SUPER

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY ROAD TRAFFIC IN PUBLIC AREAS AND INDUSTRY.

REQUIREMENT

Surface water in all kinds of areas must be allowed to drain away quickly and reliably. This requires drainage channels that will permanently withstand the loads applied from the expected traffic conditions. In particular this applies to zones exposed to heavy traffic in public and industrial areas. In addition to their technical function, drainage channels are expected to contribute visually to the attractiveness of surfaces with their form, colour and the material of the gratings. Some special applications also call for flexible channel systems - the products must be capable of being adapted to all drainage tasks.



SOLUTION

FASERFIX SUPER channels offer solutions for any type of application in heavy duty traffic areas. They are manufactured from fibre-reinforced concrete which, compared to normal concrete, has greater strength and reduced thickness of the side walls. In addition, they feature a higher bending tensile strength. No supporting backing of the channel body is required during installation. There are no restricting cross ridges in the base of the channel. The top edges and bearing surfaces for the gratings consist of corrosion-proof angle housings in galvanised steel or stainless steel which are firmly tied to the channel body through ties that reach down to the base of the channel. FASERFIX SUPER are resistant to frost and salt. The lower parts of the channels feature safety joints that can be sealed during installation against liquids, using elastic injection sealers such as the MASTERFLEX 700 FR gun grade polysulphide sealing compound. The channels can be supplied with or without in-built fall. Finally, numerous gratings for different load classes are available in the materials ductile iron, galvanised steel or stainless steel. With the SIDE-LOCK boltless locking system the gratings are safely fixed to the channels. The classification and testing meets the requirements of DIN EN 1433. Upon request we are happy to supply copies of the test certificates issued by the official material testing station at the University of Karlsruhe. FASERFIX SUPER channels are CE-marked.

APPLICATION AREAS

Traffic areas for industry and commerce, trade, trade fairs/exhibitions, railway stations, airports, ports, container handling stations, sewage works, power stations,

building yards, barracks, roads/motorways, petrol stations and service areas, parking lots, traffic-calmed zones, play streets, urban squares etc.



Potsdam, Germany



Airport Brussels, Belgium



Petrol stations all over the world



Main station Berlin, Germany

FASERFIX® SUPER KS FASERFIX® SUPER

TAILOR-MADE SOLUTIONS.

EXAMPLES OF TAILOR-MADE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

In each project the conditions to be handled by a drainage system are different. Therefore systems have to be flexible enough to allow standard products from serial production to be complemented by special items. To achieve that, HAURATON will study the individual requirements of each project and work together with the architects at an early stage. The company has a specialised team dealing exclusively with non-standard solutions - from the outline design stage right through to timely delivery and support during installation. In this way a suitable solution will be found for all applications. HAURATON channels are very flexible and can be adapted individually. Some special formats include cutting to required length, mitred cuts, holes and openings or incorporating connection pipes.

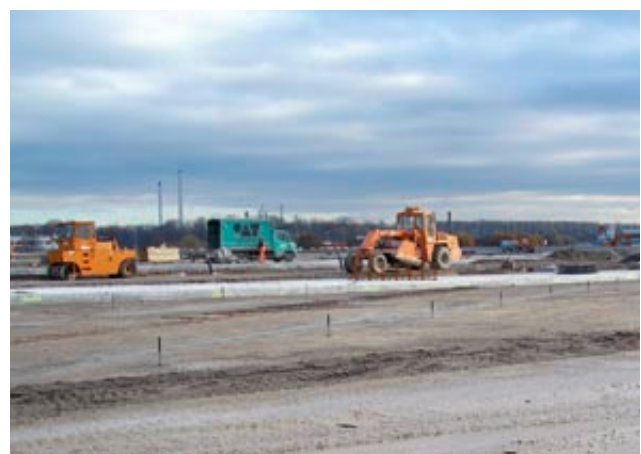
WÖRTH, DaimlerChrysler

On a site of about 550,000 square metres very close to the factory in Wörth, DaimlerChrysler is in the process of constructing the so-called EVZ - a development and test centre with test runs for putting heavy goods vehicles (HGV) through their paces. There are various stretches of track, one of them an automated bad surface track (ASW), on which prototypes and serial models are put through tough long-distance tests, with some of the vehicles being controlled via remote control.

For building projects of such dimensions the FASERFIX SUPER drainage system is the ideal solution. Standard production parts are complemented with customised channels that have been designed at the factory and are easy to install by the contractors following the installation instructions that are also supplied. Numerous mitred cuts, non-standard lengths and connection holes make up the complex drainage network that follows the routing of the test tracks.

Design of the ASW: Tilke - Engineers and Architects, Aachen/Olpe

Contractor: ASW Consortium, including the companies Strabag, Züblin, Grötz and Reif



The scheme comprises the following HAURATON channels:
2.500 m FASERFIX SUPER KS 100
850 m FASERFIX SUPER 150
200 m FASERFIX TRAFFIC SUPERBLOC 200

MANNHEIM, SHUNTING YARD

For safety reasons, overhead power lines at railway stations have to be earthed. For the shunting yard at Mannheim, HAURATON has developed a system together with Deutsche Bahn which combines drainage channels with an earth conductor. The solution provides one earthing cube per linear metre of channel which has been incorporated into the channel body underneath the angle housing. These are connected to earthing cables of 1 cm thickness. The function of the SIDE-LOCK boltless locking system remains fully intact.



WAGHÄUSEL, SITEC

The Sitec company is part of the glass industry. Its products are manufactured on highly technical machines and in extreme temperatures. A channel system has been developed for the company's factory floors that combines the routing of service pipes for the machines with a reliable drainage system. At the outline design stage, the project team at HAURATON developed a complex system comprising FASERFIX SUPER channels of different nominal widths. The factory produced numerous adapters between different nominal widths as well as T-pieces and crossovers that fitted exactly and were quick to install.



FASERFIX® SUPER KS FASERFIX® SUPER

TAILOR-MADE SOLUTIONS.

EXAMPLES OF TAILOR-MADE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

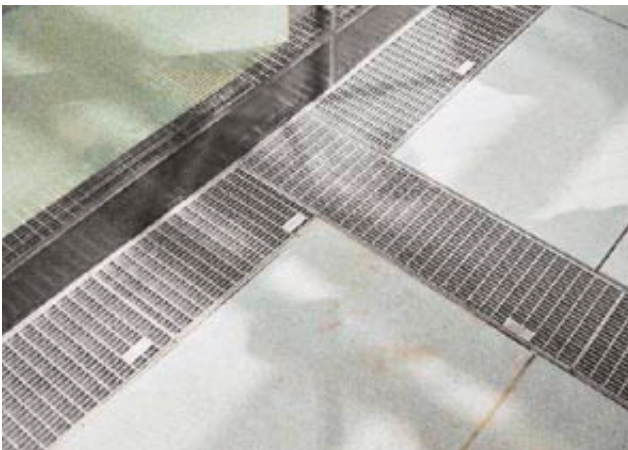
"BISCHOFSSHEIM, AM WINGERTSPFAD": EMBANKMENT CHANNEL WITH CLOSING GRATING

At the new construction site "Am Wingertspfad" in Bischofsheim open FASERFIX SUPER channels were used in different nominal widths to drain the precipitation water to the central percolation area. The whole drainage network consists of FASERFIX SUPER channels in different nominal widths and types. At the end of the drainage lines the water emerges into the open through a channel that has been truncated to suit the existing slope of the embankment as specified by the customer. An exit grating was fitted to safeguard the system.



"DRESDEN, WIENER PLATZ"

The "Wiener Platz" is the central traffic hub in Dresden. The different transport modes, such as railway, cars and buses, tramway, bicycles and wheelchairs are interlinked on different levels. For a visually appealing streetscape design of surfaces and façades, the FASERFIX SUPER channels and FASERFIX POINT yard gullies were fitted with custom-fabricated stainless steel gratings. A special request from the client and architects was the narrow mesh size of the gratings that provides better safety for pedestrians, cyclists and wheelchair users and prevents the ingress of coarser dirt items into the drainage system. The effect adds to the harmonious overall design that does justice to the outstanding architecture.



FASERFIX® SUPER KS

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY ROAD TRAFFIC IN PUBLIC AREAS AND INDUSTRY.

HIGH-STRENGTH SIDEWALLS OWING TO FIBRE-REINFORCED CONCRETE

The standard DIN EN 1433 stipulates sufficient sidewall strength for transport and installation, i.e. without the bracing effect from the gratings that are installed subsequently. The U shape of our drainage channels has passed the test of time over many years. FASERFIX SUPER channels are manufactured from fibre-reinforced concrete. The sidewalls are uniformly slender and very robust - even for short non-standard lengths. FASERFIX SUPER KS and FASERFIX SUPER channels can be installed without the gratings being fitted.

FASERFIX SUPER KS and FASERFIX SUPER channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:



**CATEGORY A 15,
LOAD CLASS 15 KN**



**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**



**CATEGORY D 400,
LOAD CLASS 400 KN**



**CATEGORY E 600,
LOAD CLASS 600 KN**



**CATEGORY F 900,
LOAD CLASS 900 KN**

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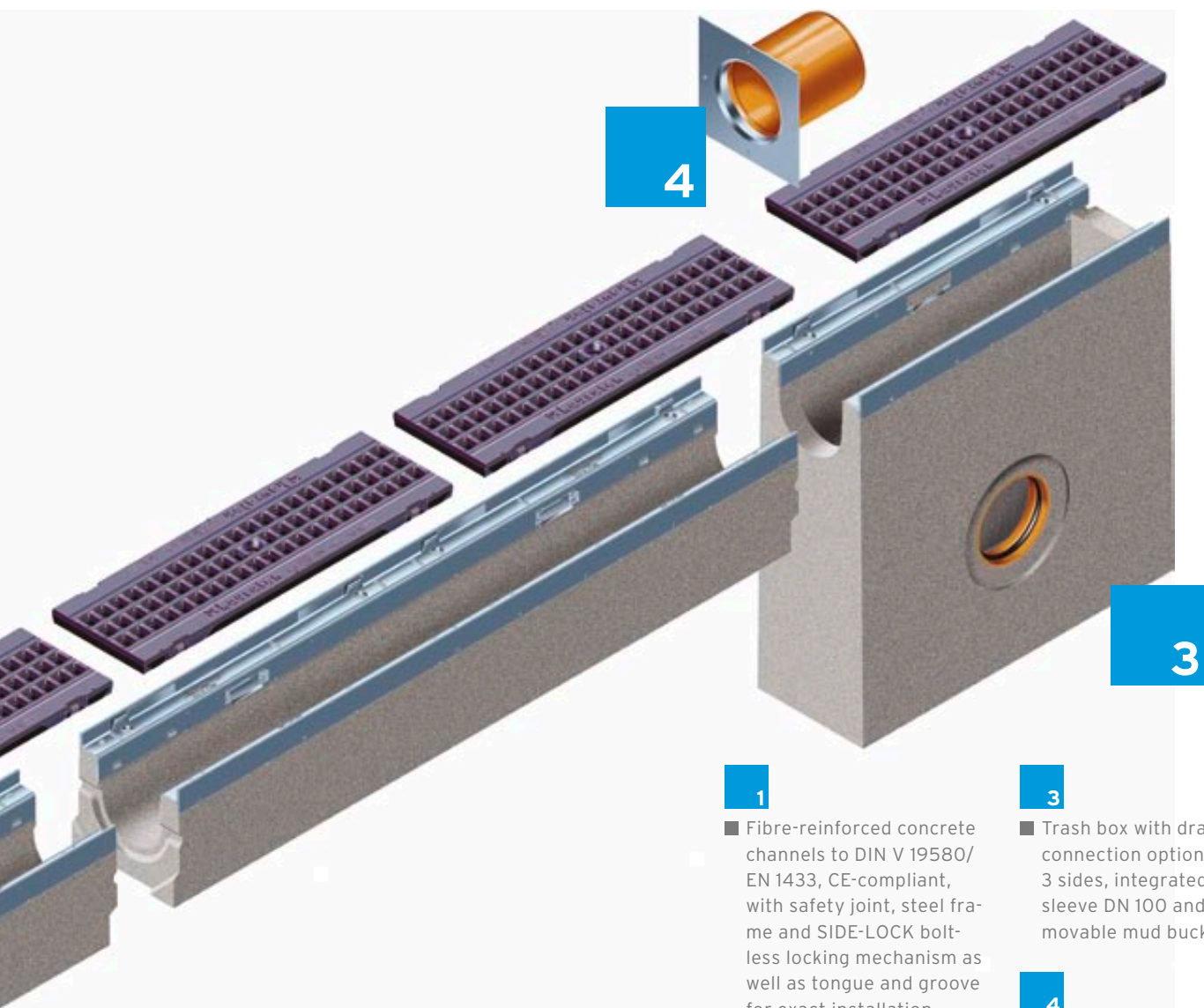
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SAFETY IN PEDESTRIAN ZONES

FASERFIX SUPER channels with their great choice of gratings are also used in pedestrian zones, on market squares and other public areas. To provide greater safety for pedestrians, the gratings with narrow slot sizes were developed.





1

■ Fibre-reinforced concrete channels to DIN V 19580/ EN 1433, CE-compliant, with safety joint, steel frame and SIDE-LOCK boltless locking mechanism as well as tongue and groove for exact installation

2

■ Numerous grating options, e.g. GUGI-Ductile iron mesh gratings

3

■ Trash box with drainage connection options on 3 sides, integrated KG sleeve DN 100 and removable mud bucket

4

■ End caps with and without outlets

GRATING OPTIONS

FASERFIX®SUPER KS CHANNELS AND FASERFIX®SUPER CHANNELS

| Load categories | GUGI-Ductile iron mesh grating* | | Ductile iron grating* | | Mesh grating* | | Slotted grating* | | Perforated grating* | | Closed covers* | | Longitudinal grating* | |
|-----------------|---------------------------------|--------------------|-----------------------|--------------------|---------------|-------|------------------|-------|---------------------|-------|----------------|----------|-----------------------|-------|
| | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER |
| A 15 | | | | | | | 100 | | | | | | 100 | |
| B 125 | | | | | 100 | | | | | | | | | |
| C 250 | | | 100, 150, 200 | 300 | 100, 150, 200 | 300 | 100 | | 100 | | 100 | | | |
| D 400 | | | 100, 150, 200 | 300, 400 | | | | | | | | | | |
| E 600 | 100, 150, 200 | 150, 200, 300, 400 | 100, 150 | 150, 200, 500 | 100, 150, 200 | | | | | | 100 | 300, 400 | | |
| F 900 | 100 | | 100, 150 | 150, 200, 300, 400 | | | | | | | | | | |

* sizes are nominal widths

FASERFIX®SUPER KS

FASERFIX®BIG

FASERFIX®TRAFFIC

RECYRFIX®SUPER KS

RECYRFIX®PLUS X

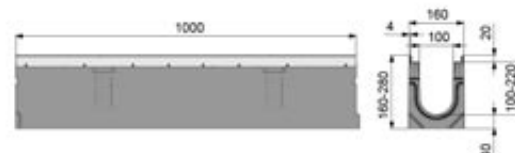
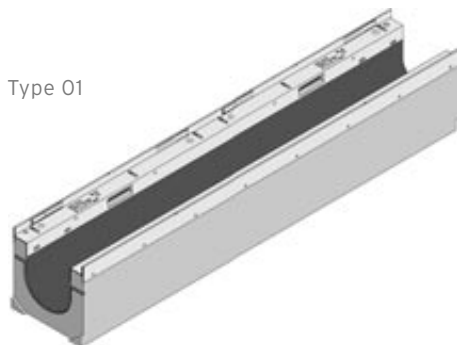
RECYRFIX®HICAP

FASERFIX®POINT

FASERFIX®SUPER KS 100

FASERFIX®SUPER KS 100 - Channel lower parts

Type 01

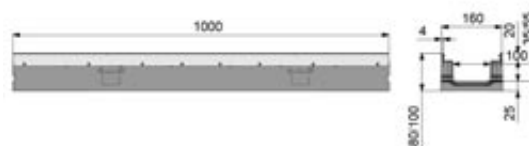


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|----------------------|--------------|-------------|--------------|---|--------------|---|--|
| Type 01 | 1000 | 160 | 160 | 89 | 35,0 | 8000 | 8200 |
| Type 01L with hole* | 1000 | 160 | 160 | | 34,0 | 8045 | - |
| Type 05 | 1000 | 160 | 184 | | 37,0 | 8041 | - |
| Type 010 | 1000 | 160 | 214 | 143 | 43,0 | 8042 | 8242 |
| Type 010L with hole* | 1000 | 160 | 214 | | 41,5 | 8046 | - |
| Type 015 | 1000 | 160 | 244 | 173 | 45,0 | 8043 | 8243 |
| Type 020 | 1000 | 160 | 274 | 203 | 49,0 | 8044 | 8244 |
| Type 0105 | 500 | 160 | 160 | 89 | 16,5 | 8049 | 8249 |
| Type 01005 | 500 | 160 | 214 | | 21,5 | 8050 | - |

*Distance from middle of the hole (DN100) to the end of the channel: 100 mm.
The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 100 - Channel lower parts flat

Type 80F

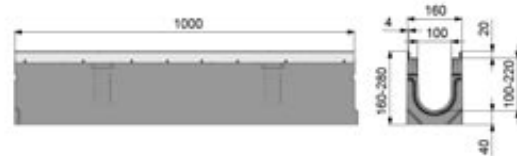
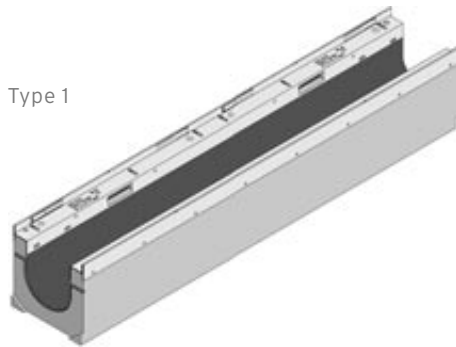


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|-----------|--------------|-------------|--------------|---|--------------|---|--|
| Type 80F | 1000 | 160 | 80 | 34 | 17,5 | 1106 | 1706 |
| Type 100F | 1000 | 160 | 100 | 54 | 20,0 | 1108 | 1708 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 100

FASERFIX®SUPER KS 100 - Channel lower parts built-in fall 0,6 %



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|---------|--------------|-------------|--------------|---|--------------|---|--|
| Type 1 | 1000 | 160 | 160 - 166 | 89 | 35,0 | 8001 | 8201 |
| Type 2 | 1000 | 160 | 166 - 172 | 95 | 36,5 | 8002 | 8202 |
| Type 3 | 1000 | 160 | 172 - 178 | 101 | 37,5 | 8003 | 8203 |
| Type 4 | 1000 | 160 | 178 - 184 | 107 | 38,0 | 8004 | 8204 |
| Type 5 | 1000 | 160 | 184 - 190 | 113 | 38,5 | 8005 | 8205 |
| Type 6 | 1000 | 160 | 190 - 196 | 119 | 39,0 | 8006 | 8206 |
| Type 7 | 1000 | 160 | 196 - 202 | 125 | 40,0 | 8007 | 8207 |
| Type 8 | 1000 | 160 | 202 - 208 | 131 | 40,5 | 8008 | 8208 |
| Type 9 | 1000 | 160 | 208 - 214 | 137 | 41,5 | 8009 | 8209 |
| Type 10 | 1000 | 160 | 214 - 220 | 143 | 42,5 | 8010 | 8210 |
| Type 11 | 1000 | 160 | 220 - 226 | 149 | 43,0 | 8011 | 8211 |
| Type 12 | 1000 | 160 | 226 - 232 | 155 | 43,5 | 8012 | 8212 |
| Type 13 | 1000 | 160 | 232 - 238 | 161 | 44,0 | 8013 | 8213 |
| Type 14 | 1000 | 160 | 238 - 244 | 167 | 44,5 | 8014 | 8214 |
| Type 15 | 1000 | 160 | 244 - 250 | 173 | 45,5 | 8015 | 8215 |
| Type 16 | 1000 | 160 | 250 - 256 | 179 | 46,5 | 8016 | 8216 |
| Type 17 | 1000 | 160 | 256 - 262 | 185 | 47,0 | 8017 | 8217 |
| Type 18 | 1000 | 160 | 262 - 268 | 191 | 47,5 | 8018 | 8218 |
| Type 19 | 1000 | 160 | 268 - 274 | 197 | 48,0 | 8019 | 8219 |
| Type 20 | 1000 | 160 | 274 - 280 | 203 | 48,0 | 8020 | 8220 |

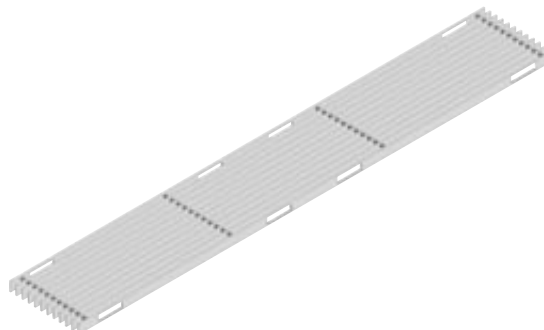
The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 100

FASERFIX® SUPER KS 100 - Gratings, class A 15



Slotted grating SW 80/10,
galvanised



Longitudinal slot grating, slot
distance 10 mm, stainless steel

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Slotted grating SW 80/10, galvanised | 1000 | 149 | 20 | 278 | 2,7 | 8161 |
| Slotted grating SW 80/10, galvanised | 500 | 149 | 20 | 278 | 1,4 | 8162 |
| Slotted grating SW 80/10, stainless steel | 1000 | 149 | 20 | 278 | 2,7 | 8163 |
| Slotted grating SW 80/10, stainless steel | 500 | 149 | 20 | 278 | 1,4 | 8164 |
| Longitudinal slot grating, slot distance 10 mm, stainless steel | 1000 | 149 | 20 | 727 | 5,8 | 8590 |
| Longitudinal slot grating, slot distance 10 mm, stainless steel | 500 | 149 | 20 | 727 | 2,9 | 8591 |
| Traverse bar grating, stainless steel | 1000 | 149 | 20 | 902 | 7,5 | 8594 |
| Traverse bar grating, stainless steel | 500 | 149 | 20 | 902 | 3,8 | 8595 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 100 - Gratings, class B 125



Mesh grating MW 30/10,
galvanised



Mesh grating MW 30/30,
galvanised

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|-----------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Mesh grating MW 30/10, galvanised | 1000 | 149 | 20 | 716 | 3,9 | 8151 |
| Mesh grating MW 30/10, galvanised | 500 | 149 | 20 | 716 | 2,0 | 8152 |
| Mesh grating MW 30/30, galvanised | 1000 | 149 | 20 | 878 | 3,2 | 8077 |
| Mesh grating MW 30/30, galvanised | 500 | 149 | 20 | 869 | 1,6 | 8078 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 100

FASERFIX®SUPER KS 100 - Gratings, class C 250



Ductile iron grating, SW 100/14, black



Ductile iron grating, heel safe



Perforated grating Ø 6, galvanised



Reinforced slotted grating SW 80/10, galvanised

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating, SW 100/14, black | 500 | 149 | 20 | 454 | 3,4 | 8064 |
| Ductile iron grating, heel safe | 500 | 149 | 20 | 280 | 3,4 | 8068 |
| Mesh grating MW 30/10, galvanised | 1000 | 149 | 20 | 716 | 5,4 | 8154 |
| Mesh grating MW 30/10, galvanised | 500 | 149 | 20 | 716 | 2,7 | 8155 |
| Mesh grating 30/10 stainless steel | 1000 | 149 | 20 | 776 | 5,2 | 8577 |
| Mesh grating, stainless steel | 500 | 149 | 20 | 766 | 2,6 | 8578 |
| Mesh grating MW 30/30, galvanised | 1000 | 149 | 20 | 828 | 4,9 | 8073 |
| Mesh grating MW 30/30, galvanised | 500 | 149 | 20 | 819 | 2,5 | 8074 |
| Reinforced slotted grating SW 80/10, galvanised | 1000 | 149 | 20 | 281 | 5,4 | 8167 |
| Reinforced slotted grating SW 80/10, galvanised | 500 | 149 | 20 | 281 | 2,7 | 8168 |
| Reinforced slotted grating SW 80/10, stainless steel | 1000 | 149 | 20 | 281 | 5,0 | 8169 |
| Reinforced slotted grating SW 80/10, stainless steel | 500 | 149 | 20 | 281 | 2,5 | 8170 |
| Perforated grating Ø 6, galvanised | 1000 | 149 | 20 | 99 | 5,4 | 8171 |
| Perforated grating Ø 6, galvanised | 500 | 149 | 20 | 99 | 2,7 | 8172 |
| Perforated grating Ø 6, stainless steel | 1000 | 149 | 20 | 99 | 6,8 | 8177 |
| Perforated grating Ø 6, stainless steel | 500 | 149 | 20 | 99 | 3,4 | 8178 |
| Solid cover, galvanised | 1000 | 149 | 20 | 0 | 5,5 | 8191 |
| Solid cover, galvanised | 500 | 149 | 20 | 0 | 2,8 | 8192 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 100

FASERFIX® SUPER KS 100 - Gratings, class D 400*



Ductile iron grating,
SW 100/14, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating, SW 100/14, black | 500 | 149 | 20 | 454 | 3,6 | 8063 |

* Not for use across the carriageway of highways or motorways in moving traffic.

FASERFIX® SUPER KS 100 - Gratings, class E 600



GUGI-Ductile iron mesh
grating MW 20/30, black



Ductile iron grating
SW 100/14, black



Ductile iron grating,
heel safe

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 149 | 20 | 426 | 4,0 | 8079 |
| GUGI-Ductile iron mesh grating MW 20/30, galvanized | 500 | 149 | 20 | 426 | 4,2 | 8080 |
| Ductile iron grating SW 100/14, black | 500 | 149 | 20 | 454 | 4,0 | 8062 |
| Ductile iron grating, heel safe | 500 | 149 | 20 | 280 | 4,1 | 8066 |
| Mesh grating MW 11/30, galvanised | 1000 | 149 | 20 | 695 | 7,0 | 8071 |
| Mesh grating MW 11/30, galvanised | 500 | 149 | 20 | 695 | 4,0 | 8072 |
| Mesh grating MW 11/30, stainless steel | 1000 | 149 | 20 | 695 | 7,0 | 8571 |
| Mesh grating MW 11/30, stainless steel | 500 | 149 | 20 | 695 | 4,0 | 8572 |
| Ductile iron grating closed, black | 500 | 149 | 20 | 0 | 4,6 | 8262 |
| Ductile iron grating closed, galvanised | 500 | 149 | 20 | 0 | 4,8 | 8264 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 100

FASERFIX®SUPER KS 100 - Gratings, class F 900



GUGI-Ductile iron mesh
grating, black

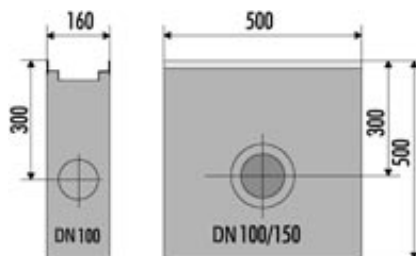
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, black | 500 | 149 | 20 | 426 | 4,8 | 8060 |
| Ductile iron grating SW 100/14, black | 500 | 149 | 20 | 454 | 4,5 | 8061 |

FASERFIX® SUPER KS 100

FASERFIX® SUPER KS 100 - Accessories



Trash box with galvanised bucket



UPVC-outlet DN 100



Foul air trap DN 100, outside

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|----------------------------------|--------------|-------------|--------------|--------------|--|---|
| Trash box with galvanised bucket | 500 | 160 | 500 | 50,0 | 8053 | - |
| Trash box with UPVC-bucket | 500 | 160 | 500 | 49,0 | 8052 | 8252 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 | - |
| UPVC-outlet DN 100 | - | - | - | 0,2 | 903 | - |

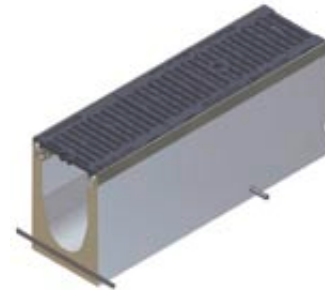
FASERFIX®SUPER KS 100



Sealing material Masterflex 700 FR
Gun Grade, cartridge 450 ml**



End cap closed, Type 01



Fixing-system EP, empty conduit
in the channel bottom, (2 pieces
per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|--|--------------|-------------|--------------|--------------|--|---|
| End cap closed, Type 01 | - | 160 | 160 | 0,4 | 8081 | 8181 |
| End cap closed, Type 010 | - | 160 | 214 | 0,5 | 8082 | 8182 |
| End cap closed, Type 020 | - | 160 | 274 | 0,7 | 8083 | 8183 |
| End cap closed, Type 80F | - | 160 | 80 | 0,2 | 1181 | 1681 |
| End cap closed, Type 100F | - | 160 | 100 | 0,3 | 1183 | 1683 |
| End cap with horizontal UPVC-outlet DN 100, Type 010 | - | 160 | 214 | 0,6 | 8087 | 8186 |
| End cap with horizontal UPVC-outlet DN 100, Type 020 | - | 160 | 274 | 0,8 | 8089 | 8187 |
| Cutting to length of NW 100 | - | - | - | - | 990 | - |
| Mitre cuts for NW 100 (two cuts per connection) | - | - | - | - | 995 | - |
| Drilling of connecting holes DN 70 | - | - | - | - | 971 | - |
| Drilling of connecting holes DN 100 | - | - | - | - | 972 | - |
| Inserting of PVC union connectors DN 70* | - | - | - | - | 981 | - |
| Inserting of PVC union connectors DN 100 * | - | - | - | - | 982 | - |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 | - |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 | - |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 | - |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 | - |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 | - |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 | - |

* We can additionally insert SML- or PE-HD outlets on appointment

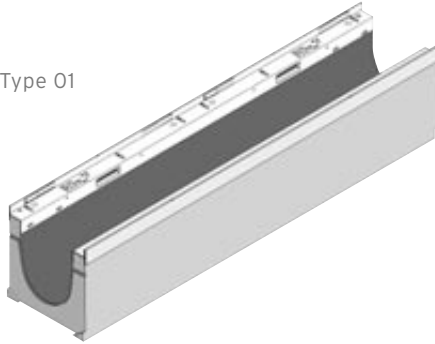
** Consumption for channel type 020: approx. 65 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 150

FASERFIX®SUPER KS 150 - Channel lower parts

Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|-----------|--------------|-------------|--------------|--|--------------|---|--|
| Type 01 | 1000 | 210 | 220 | 185 | 55,0 | 11000 | 11500 |
| Type 010 | 1000 | 210 | 265 | 245 | 63,5 | 11042 | 11542 |
| Type 020 | 1000 | 210 | 315 | 312 | 72,0 | 11044 | 11544 |
| Type 0105 | 500 | 210 | 220 | 185 | 30,0 | 11049 | 11549 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 150 - Channel lower parts flat

Type 110F

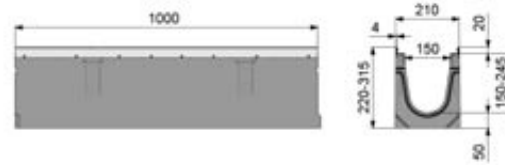
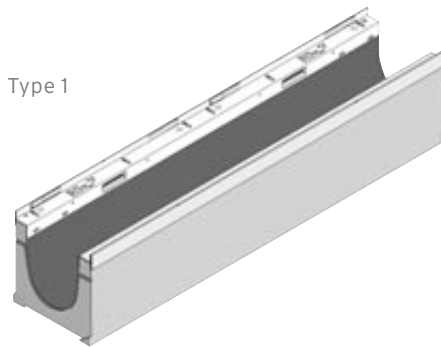


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|-----------|--------------|-------------|--------------|--|--------------|---|--|
| Type 110F | 1000 | 210 | 110 | 74 | 29,0 | 2121 | 2521 |
| Type 150F | 1000 | 210 | 150 | 134 | 35,0 | 2122 | 2522 |
| Type 200F | 1000 | 210 | 200 | 208 | 42,5 | 2123 | 2523 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 150

FASERFIX®SUPER KS 150 - Channel lower parts built-in fall 0,5 %

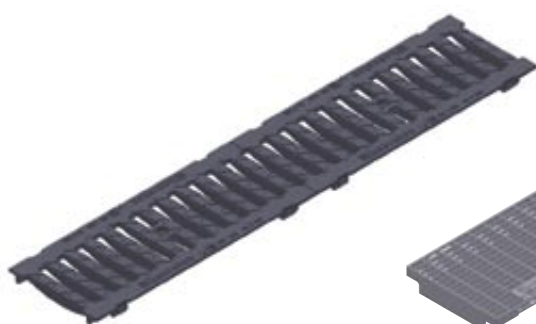


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|---------|--------------|-------------|--------------|--|--------------|---|--|
| Type 1 | 1000 | 210 | 220 - 225 | 186 | 56,1 | 11001 | 11501 |
| Type 2 | 1000 | 210 | 225 - 230 | 196 | 56,8 | 11002 | 11502 |
| Type 3 | 1000 | 210 | 230 - 235 | 203 | 57,7 | 11003 | 11503 |
| Type 4 | 1000 | 210 | 235 - 240 | 211 | 58,5 | 11004 | 11504 |
| Type 5 | 1000 | 210 | 240 - 245 | 218 | 59,3 | 11005 | 11505 |
| Type 6 | 1000 | 210 | 245 - 250 | 226 | 60,2 | 11006 | 11506 |
| Type 7 | 1000 | 210 | 250 - 255 | 233 | 61,0 | 11007 | 11507 |
| Type 8 | 1000 | 210 | 255 - 260 | 241 | 61,8 | 11008 | 11508 |
| Type 9 | 1000 | 210 | 260 - 265 | 248 | 62,7 | 11009 | 11509 |
| Type 10 | 1000 | 210 | 265 - 270 | 254 | 63,5 | 11010 | 11510 |

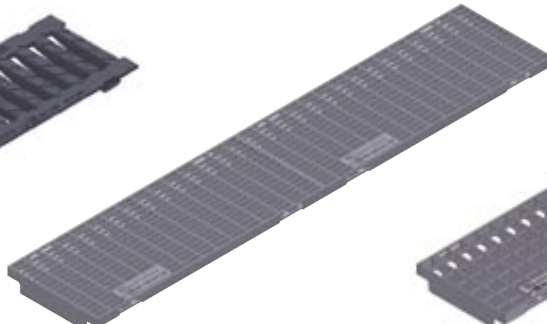
The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 150

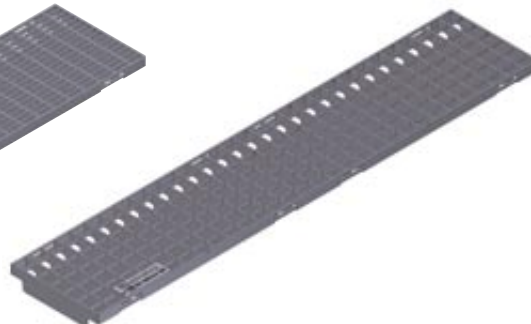
FASERFIX® SUPER KS 150 - Gratings, class C 250



Ductile iron grating
SW 132/20, black



Mesh grating MW 30/10,
galvanised



Mesh grating MW 30/30,
galvanised

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 132/20, black | 500 | 199 | 20 | 631 | 5,3 | 11064 |
| Mesh grating MW 30/10, galvanised | 1000 | 199 | 20 | 1105 | 7,7 | 11075 |
| Mesh grating MW 30/10, galvanised | 500 | 199 | 20 | 1105 | 4,1 | 11076 |
| Mesh grating MW 30/10, stainless steel | 1000 | 199 | 20 | 1105 | 8,0 | 11575 |
| Mesh grating MW 30/10, stainless steel | 500 | 199 | 20 | 1105 | 4,0 | 11576 |
| Mesh grating MW 30/30, galvanised | 1000 | 199 | 20 | 1240 | 6,8 | 11073 |
| Mesh grating MW 30/30, galvanised | 500 | 199 | 20 | 1240 | 3,4 | 11074 |
| Mesh grating MW 30/30, stainless steel | 1000 | 199 | 20 | 1240 | 7,0 | 11573 |
| Mesh grating MW 30/30, stainless steel | 500 | 199 | 20 | 1240 | 3,5 | 11574 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 150 - Gratings, class D 400*



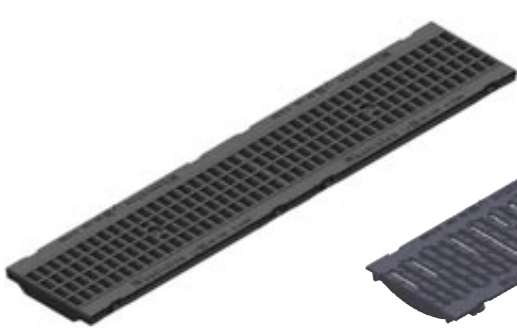
GUGI-Ductile iron mesh
grating, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, black | 500 | 199 | 20 | 716 | 5,5 | 11067 |
| Ductile iron grating SW 132/20, black | 500 | 199 | 20 | 629 | 5,3 | 11063 |

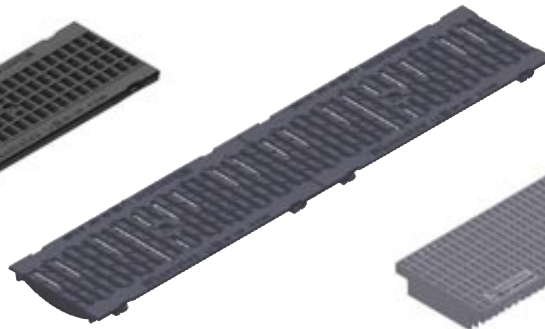
* Not for use across the carriageway of highways or motorways in moving traffic.

FASERFIX®SUPER KS 150

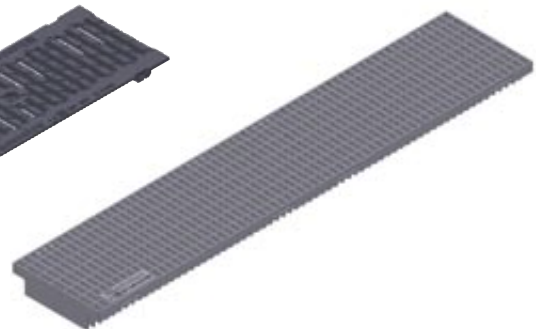
FASERFIX®SUPER KS 150 - Gratings, class E 600



GUGI-Ductile iron mesh grating MW 20/30, black



Ductile iron grating SW 132/9, black



Mesh grating MW 11/30, galvanised

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 199 | 20 | 716 | 7,7 | 11068 |
| Ductile iron grating, closed, black | 500 | 199 | 20 | 0 | 7,0 | 11362 |
| Ductile iron grating SW 132/9, black | 500 | 199 | 20 | 557 | 6,8 | 11066 |
| Mesh grating MW 11/30, galvanised | 1000 | 199 | 20 | 981 | 20,2 | 11071 |
| Mesh grating MW 11/30 , galvanised | 500 | 199 | 20 | 981 | 10,1 | 11072 |
| Mesh grating MW 11/30, stainless steel | 1000 | 199 | 20 | 981 | 21,0 | 11571 |
| Mesh grating MW 11/30, stainless steel | 500 | 199 | 20 | 981 | 11,0 | 11572 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 150 - Gratings, class F 900



Ductile iron grating SW 132/20, black

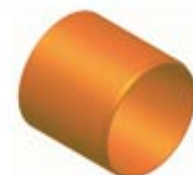
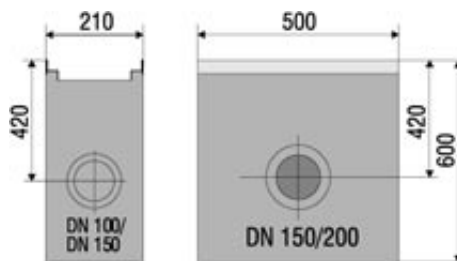
| | Length mm | width mm | Height mm | Intake cross-sect. cm ² /m | Weight KG | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|----------------|
| Ductile iron grating SW 132/20, black | 500 | 199 | 20 | 626 | 7,2 | 11061 |

FASERFIX® SUPER KS 150

FASERFIX® SUPER KS 150 - Accessories



Trash box with galvanised bucket



PVC - connection DN 150



Foul air trap DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|----------------------------------|--------------|-------------|--------------|--------------|--|---|
| Trash box with galvanised bucket | 500 | 210 | 600 | 67,5 | 11052 | 11552 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 | - |
| PVC - connection DN 150 | - | - | - | 0,5 | 906 | - |

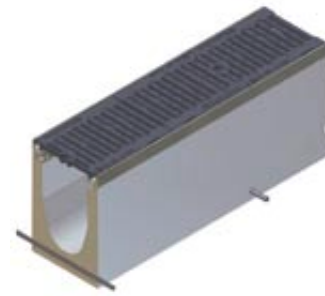
FASERFIX® SUPER KS 150



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**



End cap closed, type 01



Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|---|--------------|-------------|--------------|--------------|--|---|
| End cap closed, type 01 | - | 210 | 220 | 0,9 | 11081 | 11581 |
| End cap closed, type 010 | - | 210 | 265 | 0,9 | 11082 | 11582 |
| End cap closed, type 020 | - | 210 | 315 | 1,3 | 11083 | 11583 |
| End cap closed, type 110F | - | 210 | 110 | 0,4 | 2181 | 2681 |
| End cap closed, type 150F | - | 210 | 150 | 0,6 | 2182 | 2682 |
| End cap closed, type 200F | - | 210 | 200 | 0,8 | 2183 | 2683 |
| End cap with horizontal UPVC - outlet DN 150, type 010 | - | 210 | 265 | 1,1 | 11087 | - |
| End cap with horizontal UPVC - outlet DN 150, type 020 | - | 210 | 315 | 1,3 | 11088 | - |
| End cap with horizontal UPVC - outlet DN 150, type 010 | - | 210 | 265 | 1,1 | 11587 | - |
| End cap with horizontal UPVC - outlet DN 150, type 020 | - | 210 | 315 | 1,3 | 11588 | - |
| Cutting to length of NW 150 | - | - | - | - | 991 | - |
| Mitre cuts of NW 150 (two cuts per connection) | - | - | - | - | 996 | - |
| Drilling of connecting holes DN 150 | - | - | - | - | 973 | - |
| Inserting of PVC union connectors DN 150* | - | - | - | - | 983 | - |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 | - |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 | - |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 | - |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 | - |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 | - |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 | - |

* We can additionally insert SML- or PE-HD outlets on appointment

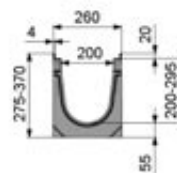
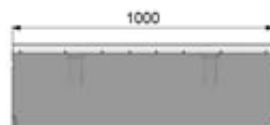
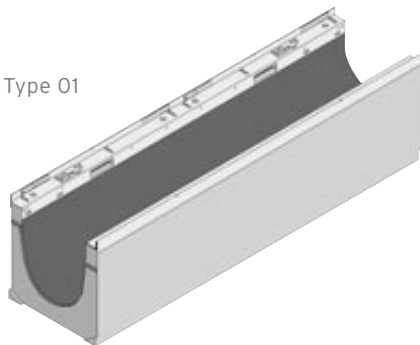
** Consumption for channely type 020: approx. 94 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 200

FASERFIX®SUPER KS 200 - Channel lower parts

Type 01

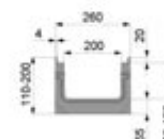
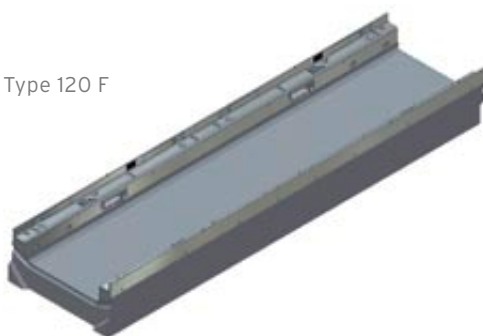


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|-----------|--------------|-------------|--------------|--|--------------|---|--|
| Type 01 | 1000 | 260 | 275 | 319 | 80,0 | 12000 | 12500 |
| Type 010 | 1000 | 260 | 320 | 409 | 85,0 | 12042 | 12542 |
| Type 020 | 1000 | 260 | 370 | 509 | 93,0 | 12044 | 12544 |
| Type 0105 | 500 | 260 | 275 | 319 | 40,5 | 12049 | 12549 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 200 - Channel lower parts flat

Type 120 F

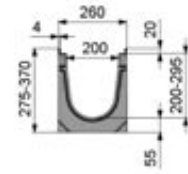
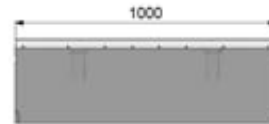
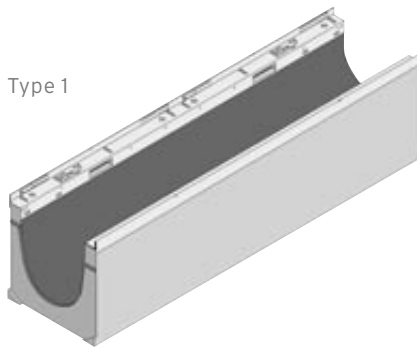


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|------------|--------------|-------------|--------------|--|--------------|---|--|
| Type 120 F | 1000 | 260 | 110 | 89 | 54,0 | 3121 | 3521 |
| Type 150 F | 1000 | 260 | 150 | 148 | 60,0 | 3122 | 3522 |
| Type 200 F | 1000 | 260 | 200 | 246 | 67,5 | 3123 | 3523 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 200

FASERFIX®SUPER KS 200 - Channel lower parts built-in fall 05 %

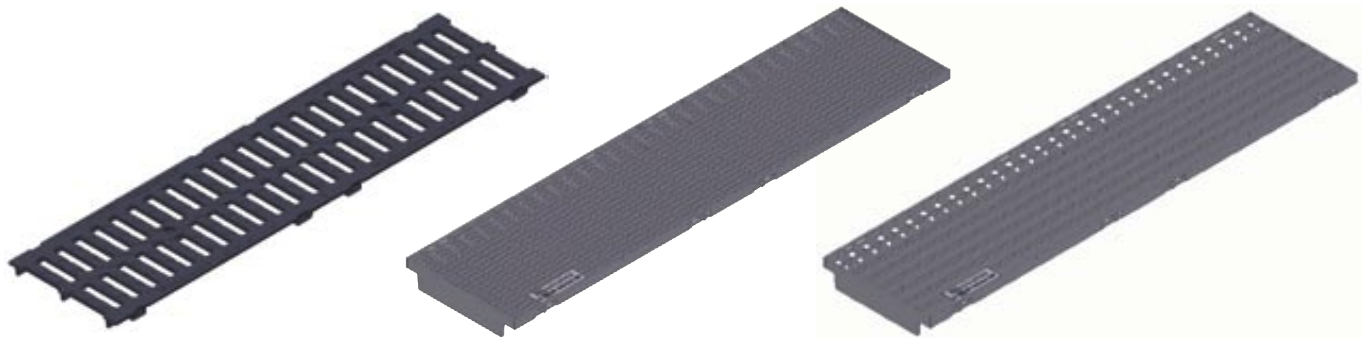


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. galva- nised angle housing | Article No. stainless steel angle housing |
|---------|--------------|-------------|--------------|--|--------------|---|--|
| Type 1 | 1000 | 260 | 275 - 280 | 324 | 79,0 | 12001 | 12501 |
| Type 2 | 1000 | 260 | 280 - 285 | 334 | 80,6 | 12002 | 12502 |
| Type 3 | 1000 | 260 | 285 - 290 | 344 | 81,4 | 12003 | 12503 |
| Type 4 | 1000 | 260 | 290 - 295 | 354 | 82,2 | 12004 | 12504 |
| Type 5 | 1000 | 260 | 295 - 300 | 364 | 83,0 | 12005 | 12505 |
| Type 6 | 1000 | 260 | 300 - 305 | 374 | 83,8 | 12006 | 12506 |
| Type 7 | 1000 | 260 | 305 - 310 | 384 | 84,6 | 12007 | 12507 |
| Type 8 | 1000 | 260 | 310 - 315 | 394 | 85,4 | 12008 | 12508 |
| Type 9 | 1000 | 260 | 315 - 320 | 404 | 86,2 | 12009 | 12509 |
| Type 10 | 1000 | 260 | 320 - 325 | 414 | 87,0 | 12010 | 12510 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 200

FASERFIX® SUPER KS 200 - Gratings, class C 250



Ductile iron grating
SW 2x85/20, black

Mesh grating MW 30/10,
galvanised

Mesh grating MW 30/30,
galvanised

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 2x85/20, black | 500 | 249 | 20 | 823 | 5,8 | 12064 |
| Mesh grating MW 30/10, galvanised | 1000 | 249 | 20 | 1500 | 11,0 | 12075 |
| Mesh grating MW 30/10, galvanised | 500 | 249 | 20 | 1500 | 5,8 | 12076 |
| Mesh grating MW 30/10, stainless steel | 1000 | 249 | 20 | 1500 | 11,0 | 12575 |
| Mesh grating MW 30/10, stainless steel | 500 | 249 | 20 | 1500 | 5,8 | 12576 |
| Mesh grating MW 30/30, galvanised | 1000 | 249 | 20 | 1681 | 9,8 | 12073 |
| Mesh grating MW 30/30, galvanised | 500 | 249 | 20 | 1681 | 5,0 | 12074 |
| Mesh grating MW 30/30, stainless steel | 1000 | 249 | 20 | 1681 | 9,8 | 12573 |
| Mesh grating MW 30/30, stainless steel | 500 | 249 | 20 | 1681 | 5,0 | 12574 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX® SUPER KS 200 - Gratings, class D 400*



Ductile iron grating
SW 2x85/20, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 2x85/20, black | 500 | 249 | 20 | 823 | 6,8 | 12063 |

* Not for use across the carriageway of highways or motorways in moving traffic.

FASERFIX®SUPER KS 200

FASERFIX®SUPER KS 200 - Gratings, class E 600



Mesh grating MW 11/30,
galvanised



GUGI-Ductile mesh grating
MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile mesh grating MW 20/30, black | 500 | 249 | 20 | 886 | 9,6 | 12068 |
| Ductile iron grating, closed, black | 500 | 249 | 20 | 0 | 8,6 | 12362 |
| Mesh grating MW 11/30, galvanised | 1000 | 249 | 20 | 1309 | 29,7 | 12071 |
| Mesh grating MW 11/30, galvanised | 500 | 249 | 20 | 1309 | 14,9 | 12072 |
| Mesh grating MW 11/30, stainless steel | 1000 | 249 | 20 | 1309 | 29,7 | 12571 |
| Mesh grating MW 11/30, stainless steel | 500 | 249 | 20 | 1309 | 14,9 | 12572 |

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 200 - Gratings, class F 900



Ductile iron grating
SW 2x85/20, black

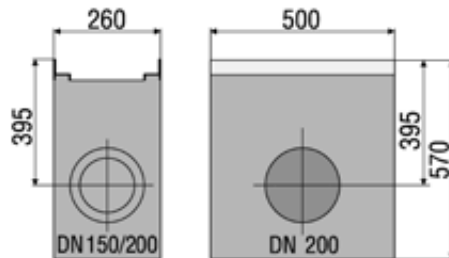
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 2x85/20, black | 500 | 249 | 20 | 826 | 9,2 | 12061 |

FASERFIX® SUPER KS 200

FASERFIX® SUPER KS 200 - Accessories



Trash box with galvanised bucket



Foul air trap DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|----------------------------------|--------------|-------------|--------------|--------------|--|---|
| Trash box with galvanised bucket | 500 | 260 | 570 | 75,5 | 12052 | 12525 |
| Trash box with galvanised bucket | 500 | 260 | 570 | 75,5 | 12552 | - |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 | - |
| PVC-Connection DN 200 | - | - | - | 0,8 | 907 | - |

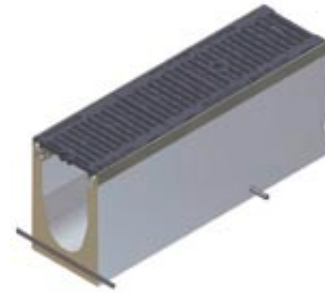
FASERFIX® SUPER KS 200



Sealing material Masterflex 700 FR
Gun Grade, cartridge 450 ml**



End cap closed, Type 01



Fixing-system EP, empty conduit in the channel
bottom, (2 pieces per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised angle housing | Article No. stainless steel angle housing |
|--|--------------|-------------|--------------|--------------|--|---|
| End cap closed, Type 01 | - | 260 | 275 | 0,9 | 12081 | 12581 |
| End cap closed, Type 010 | - | 260 | 320 | 0,9 | 12082 | 12582 |
| End cap closed, Type 020 | - | 260 | 370 | 1,3 | 12083 | 12583 |
| End cap, closed, Type 120 F | - | 260 | 110 | 0,5 | 3181 | 3681 |
| End cap, closed, Type 150 F | - | 260 | 150 | 0,6 | 3182 | 3682 |
| End cap, closed, Type 200 F | - | 260 | 200 | 0,8 | 3183 | 3683 |
| End cap with horizontal UPVC-outlet, DN 150, galvanised, Type 010 | - | 260 | 320 | 1,5 | 12087 | 12587 |
| End cap with horizontal UPVC-outlet, DN 150, galvanised, Type 020 | - | 260 | 370 | 1,8 | 12088 | 12588 |
| Cutting to length of NW 200 | - | - | - | - | 992 | - |
| Mitre cuts of NW 200 (two cuts per connection) | - | - | - | - | 997 | - |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 | - |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 | - |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 | - |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 | - |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 | - |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 | - |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 | - |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 | - |

* We can additionally insert SML- or PE-HD outlets on appointment

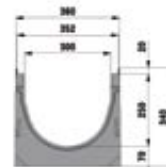
** Consumption for channel type 020: approx. 105 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER KS 300

FASERFIX®SUPER KS 300 - Channel lower parts

Type 340 mm



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-------------|--------------|-------------|--------------|--|--------------|-------------|
| Type 340 mm | 1000 | 360 | 340 | 634 | 117,0 | 14040 |

FASERFIX®SUPER KS 300 - Gratings, class E 600

GUGI-Ductile iron mesh
grating, black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, black | 500 | 349 | 20 | 1196 | 18,6 | 14068 |

FASERFIX®SUPER KS 300

FASERFIX®SUPER KS 300 - Accessories

End cap closed,
type 340



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| End cap closed, type 340 | - | - | - | 2,3 | 14085 |
| Cutting to length of NW 300 | - | - | - | - | 993 |
| Mitre cuts of NW 300 (two cuts per connection) | - | - | - | - | 998 |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

FASERFIX® SUPER KS FASERFIX® SUPER

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY GOODS VEHICLES IN PUBLIC AREAS AND INDUSTRY.



AT A GLANCE

- ✓ Highest bending tensile strength
- ✓ Patented SIDE-LOCK boltless locking system
- ✓ Available with built-in fall
- ✓ With safety joint for easy sealing



FASERFIX® SUPER KS FASERFIX® SUPER

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY ROAD TRAFFIC IN PUBLIC AREAS AND INDUSTRY.

REQUIREMENT

Surface water in all kinds of areas must be allowed to drain away quickly and reliably. This requires drainage channels that will permanently withstand the loads applied from the expected traffic conditions. In particular this applies to zones exposed to heavy traffic in public and industrial areas. In addition to their technical function, drainage channels are expected to contribute visually to the attractiveness of surfaces with their form, colour and the material of the gratings. Some special applications also call for flexible channel systems - the products must be capable of being adapted to all drainage tasks.



SOLUTION

FASERFIX SUPER channels offer solutions for any type of application in heavy duty traffic areas. They are manufactured from fibre-reinforced concrete which, compared to normal concrete, has greater strength and reduced thickness of the side walls. In addition, they feature a higher bending tensile strength. No supporting backing of the channel body is required during installation. There are no restricting cross ridges in the base of the channel. The top edges and bearing surfaces for the gratings consist of corrosion-proof angle housings in galvanised steel or stainless steel which are firmly tied to the channel body through ties that reach down to the base of the channel. FASERFIX SUPER are resistant to frost and salt. The lower parts of the channels feature safety joints that can be sealed during installation against liquids, using elastic injection sealers such as the MASTERFLEX 700 FR gun grade polysulphide sealing compound. The channels can be supplied with or without in-built fall. Finally, numerous gratings for different load classes are available in the materials ductile iron, galvanised steel or stainless steel. With the SIDE-LOCK boltless locking system the gratings are safely fixed to the channels. The classification and testing meets the requirements of DIN EN 1433. Upon request we are happy to supply copies of the test certificates issued by the official material testing station at the University of Karlsruhe. FASERFIX SUPER channels are CE-marked.

APPLICATION AREAS

Traffic areas for industry and commerce, trade, trade fairs/exhibitions, railway stations, airports, ports, container handling stations, sewage works, power stations,

building yards, barracks, roads/motorways, petrol stations and service areas, parking lots, traffic-calmed zones, play streets, urban squares etc.



Potsdam, Germany



Airport Brussels, Belgium



Petrol stations all over the world



Main station Berlin, Germany

FASERFIX® SUPER KS FASERFIX® SUPER

TAILOR-MADE SOLUTIONS.

EXAMPLES OF TAILOR-MADE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

In each project the conditions to be handled by a drainage system are different. Therefore systems have to be flexible enough to allow standard products from serial production to be complemented by special items. To achieve that, HAURATON will study the individual requirements of each project and work together with the architects at an early stage. The company has a specialised team dealing exclusively with non-standard solutions - from the outline design stage right through to timely delivery and support during installation. In this way a suitable solution will be found for all applications. HAURATON channels are very flexible and can be adapted individually. Some special formats include cutting to required length, mitred cuts, holes and openings or incorporating connection pipes.

WÖRTH, DaimlerChrysler

On a site of about 550,000 square metres very close to the factory in Wörth, DaimlerChrysler is in the process of constructing the so-called EVZ - a development and test centre with test runs for putting heavy goods vehicles (HGV) through their paces. There are various stretches of track, one of them an automated bad surface track (ASW), on which prototypes and serial models are put through tough long-distance tests, with some of the vehicles being controlled via remote control.

For building projects of such dimensions the FASERFIX SUPER drainage system is the ideal solution. Standard production parts are complemented with customised channels that have been designed at the factory and are easy to install by the contractors following the installation instructions that are also supplied. Numerous mitred cuts, non-standard lengths and connection holes make up the complex drainage network that follows the routing of the test tracks.

Design of the ASW: Tilke - Engineers and Architects, Aachen/Olpe

Contractor: ASW Consortium, including the companies Strabag, Züblin, Grötz and Reif



The scheme comprises the following HAURATON channels:
2.500 m FASERFIX SUPER KS 100
850 m FASERFIX SUPER 150
200 m FASERFIX TRAFFIC SUPERBLOC 200

MANNHEIM, SHUNTING YARD

For safety reasons, overhead power lines at railway stations have to be earthed. For the shunting yard at Mannheim, HAURATON has developed a system together with Deutsche Bahn which combines drainage channels with an earth conductor. The solution provides one earthing cube per linear metre of channel which has been incorporated into the channel body underneath the angle housing. These are connected to earthing cables of 1 cm thickness. The function of the SIDE-LOCK boltless locking system remains fully intact.



WAGHÄUSEL, SITEC

The Sitec company is part of the glass industry. Its products are manufactured on highly technical machines and in extreme temperatures. A channel system has been developed for the company's factory floors that combines the routing of service pipes for the machines with a reliable drainage system. At the outline design stage, the project team at HAURATON developed a complex system comprising FASERFIX SUPER channels of different nominal widths. The factory produced numerous adapters between different nominal widths as well as T-pieces and crossovers that fitted exactly and were quick to install.



FASERFIX® SUPER KS FASERFIX® SUPER

TAILOR-MADE SOLUTIONS.

EXAMPLES OF TAILOR-MADE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

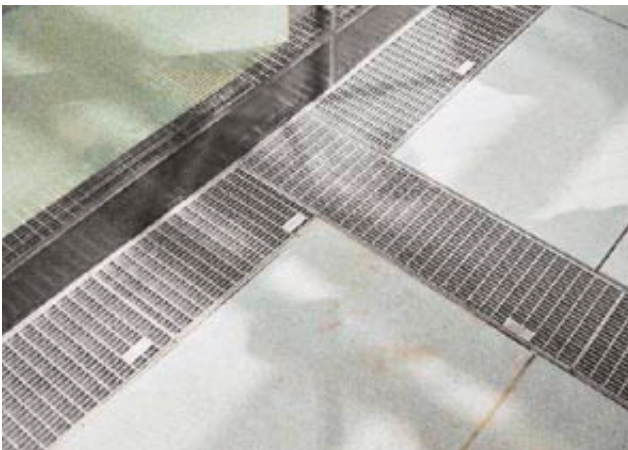
"BISCHOFSSHEIM, AM WINGERTSPFAD": EMBANKMENT CHANNEL WITH CLOSING GRATING

At the new construction site "Am Wingertspfad" in Bischofsheim open FASERFIX SUPER channels were used in different nominal widths to drain the precipitation water to the central percolation area. The whole drainage network consists of FASERFIX SUPER channels in different nominal widths and types. At the end of the drainage lines the water emerges into the open through a channel that has been truncated to suit the existing slope of the embankment as specified by the customer. An exit grating was fitted to safeguard the system.



"DRESDEN, WIENER PLATZ"

The "Wiener Platz" is the central traffic hub in Dresden. The different transport modes, such as railway, cars and buses, tramway, bicycles and wheelchairs are interlinked on different levels. For a visually appealing streetscape design of surfaces and façades, the FASERFIX SUPER channels and FASERFIX POINT yard gullies were fitted with custom-fabricated stainless steel gratings. A special request from the client and architects was the narrow mesh size of the gratings that provides better safety for pedestrians, cyclists and wheelchair users and prevents the ingress of coarser dirt items into the drainage system. The effect adds to the harmonious overall design that does justice to the outstanding architecture.



FASERFIX® SUPER KS

THE COMPLETE DRAINAGE SYSTEM - EXTREMELY ROBUST.
FOR EXPOSURE TO HEAVY ROAD TRAFFIC IN PUBLIC AREAS AND INDUSTRY.

HIGH-STRENGTH SIDEWALLS OWING TO FIBRE-REINFORCED CONCRETE

The standard DIN EN 1433 stipulates sufficient sidewall strength for transport and installation, i.e. without the bracing effect from the gratings that are installed subsequently. The U shape of our drainage channels has passed the test of time over many years. FASERFIX SUPER channels are manufactured from fibre-reinforced concrete. The sidewalls are uniformly slender and very robust - even for short non-standard lengths. FASERFIX SUPER KS and FASERFIX SUPER channels can be installed without the gratings being fitted.

FASERFIX SUPER KS and FASERFIX SUPER channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:



**CATEGORY A 15,
LOAD CLASS 15 KN**



**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**



**CATEGORY D 400,
LOAD CLASS 400 KN**



**CATEGORY E 600,
LOAD CLASS 600 KN**



**CATEGORY F 900,
LOAD CLASS 900 KN**

4

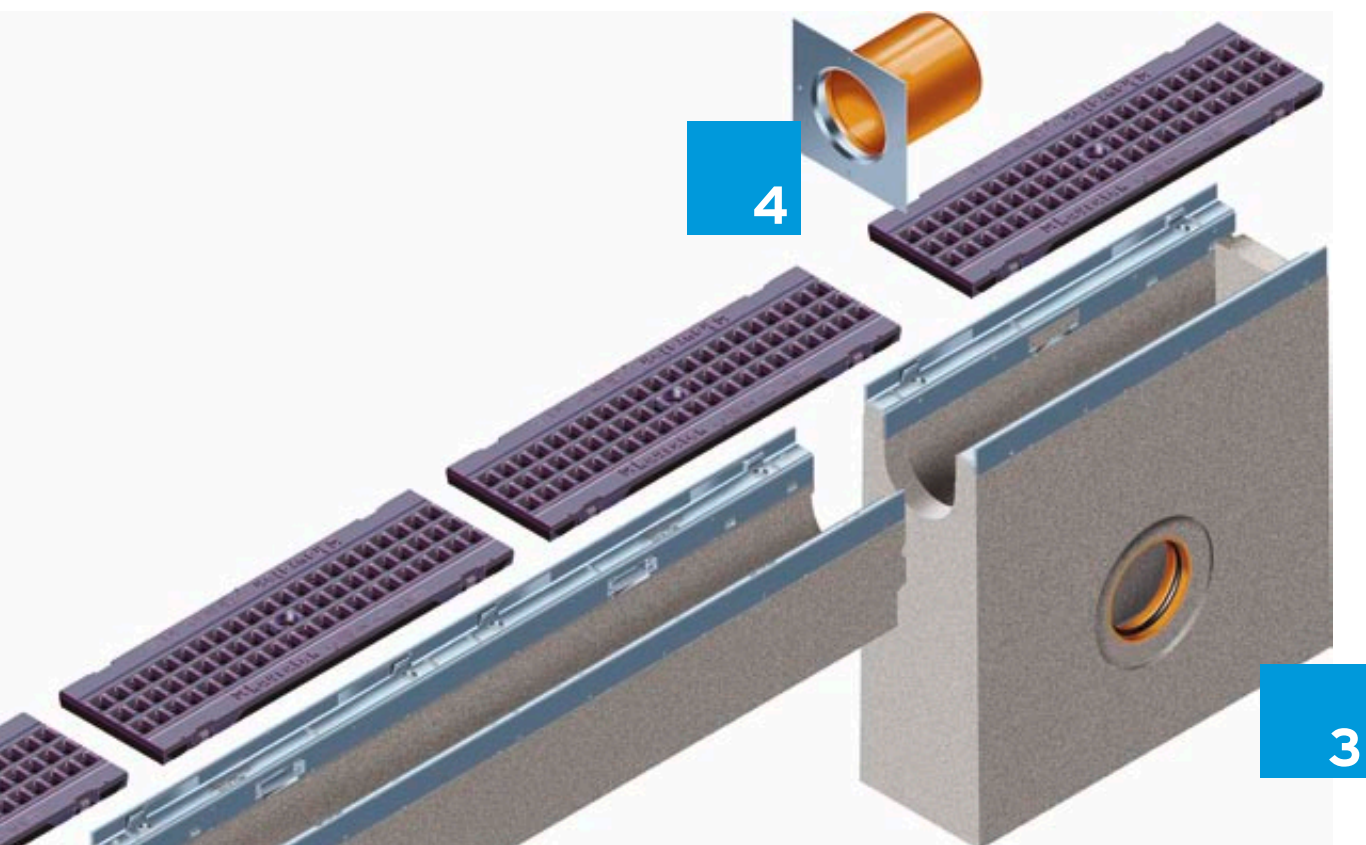
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1

SAFETY IN PEDESTRIAN ZONES

FASERFIX SUPER channels with their great choice of gratings are also used in pedestrian zones, on market squares and other public areas. To provide greater safety for pedestrians, the gratings with narrow slot sizes were developed.





1

■ Fibre-reinforced concrete channels to DIN V 19580/ EN 1433, CE-compliant, with safety joint, steel frame and SIDE-LOCK boltless locking mechanism as well as tongue and groove for exact installation

2

■ Numerous grating options, e.g. GUGI-Ductile iron mesh gratings

3

■ Trash box with drainage connection options on 3 sides, integrated KG sleeve DN 100 and removable mud bucket

4

■ End caps with and without outlets

GRATING OPTIONS

FASERFIX®SUPER KS CHANNELS AND FASERFIX®SUPER CHANNELS

| Load categories | GUGI-Ductile iron mesh grating* | | Ductile iron grating* | | Mesh grating* | | Slotted grating* | | Perforated grating* | | Closed covers* | | Longitudinal grating* | |
|-----------------|---------------------------------|--------------------|-----------------------|--------------------|---------------|-------|------------------|-------|---------------------|-------|----------------|----------|-----------------------|-------|
| | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER |
| A 15 | | | | | | | 100 | | | | | | 100 | |
| B 125 | | | | | 100 | | | | | | | | | |
| C 250 | | | 100, 150, 200 | 300 | 100, 150, 200 | 300 | 100 | | 100 | | 100 | | | |
| D 400 | | | 100, 150, 200 | 300, 400 | | | | | | | | | | |
| E 600 | 100, 150, 200 | 150, 200, 300, 400 | 100, 150 | 150, 200, 500 | 100, 150, 200 | | | | | | 100 | 300, 400 | | |
| F 900 | 100 | | 100, 150 | 150, 200, 300, 400 | | | | | | | | | | |

* sizes are nominal widths

FASERFIX®SUPER KS

FASERFIX®BIG

FASERFIX®TRAFFIC

RECYRFIX®SUPER KS

RECYRFIX®PLUS X

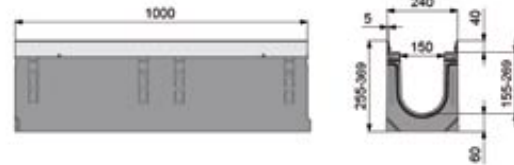
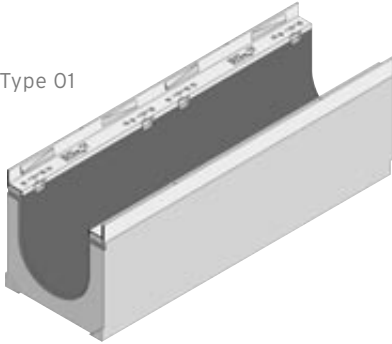
RECYRFIX®HICAP

FASERFIX®POINT

FASERFIX®SUPER 150

FASERFIX®SUPER 150 - Channel lower parts

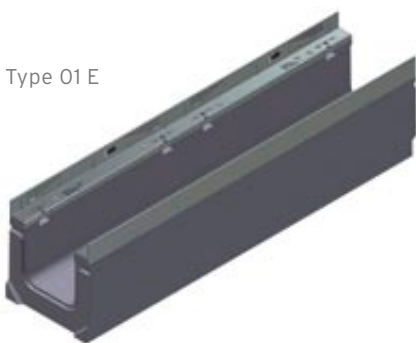
Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 | 1000 | 240 | 255 | 212 | 78,0 | 2000 |
| Type 010 | 1000 | 240 | 309 | 289 | 89,0 | 2042 |
| Type 020 | 1000 | 240 | 369 | 383 | 103,0 | 2044 |
| Type 0105 | 500 | 240 | 255 | 212 | 39,0 | 2049 |

FASERFIX®SUPER 150 - Channel lower parts angular

Type 01 E



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|------------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 E | 1000 | 240 | 255 | 223 | 80,0 | 2105 |
| Type 010 E | 1000 | 240 | 309 | 301 | 93,5 | 2106 |
| Type 020 E | 1000 | 240 | 369 | 387 | 105,0 | 2107 |

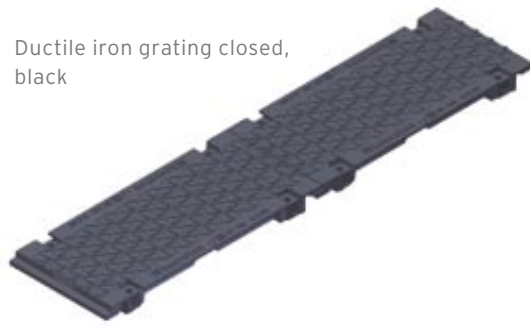
FASERFIX®SUPER 150

FASERFIX®SUPER 150 - Gratings, class E 600

GUGI-Ductile iron mesh grating,
MW 20/30, black



Ductile iron grating closed,
black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, MW 20/30, black | 500 | 227 | 40 | 628 | 11,5 | 2068 |
| Ductile iron grating closed, black | 500 | 227 | 40 | 0 | 10,7 | 2262 |

FASERFIX®SUPER 150 - Gratings, class F 900

Ductile iron grating
SW 150/20, black



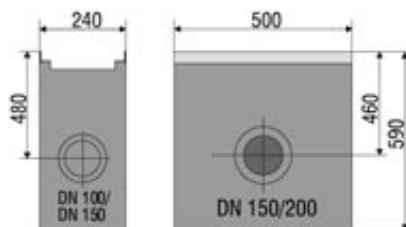
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 150/20, black | 500 | 227 | 40 | 710 | 9,8 | 2061 |

FASERFIX® SUPER 150

FASERFIX® SUPER 150 - Accessories



Trash box with galvanised bucket



PVC - connection DN 150



Foul air trap DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|----------------------------------|--------------|-------------|--------------|--------------|----------------|
| Trash box with galvanised bucket | 500 | 240 | 590 | 93,0 | 2052 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| PVC - connection DN 150 | - | - | - | 0,5 | 906 |

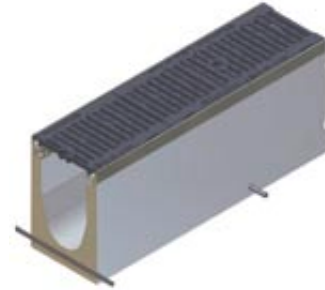
FASERFIX®SUPER 150



Sealing material Masterflex 700 FR
Gun Grade, cartridge 450 ml**



End cap closed, galvanised,
Type 01



Fixing-system EP, empty conduit
in the channel bottom, (2 pieces
per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| End cap closed, galvanised, Type 01 | - | 240 | 255 | 0,9 | 2081 |
| End cap closed, galvanised, Type 010 | - | 240 | 309 | 1,1 | 2082 |
| End cap closed, galvanised, Type 020 | - | 240 | 369 | 1,3 | 2083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Typ 01 | - | 240 | 255 | 1,5 | 2091 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 010 | - | 240 | 309 | 1,5 | 2092 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 240 | 369 | 1,7 | 2093 |
| Cutting to length of NW 150 | - | - | - | - | 991 |
| Mitre cuts of NW 150 (two cuts per connection) | - | - | - | - | 996 |
| Drilling of connecting holes DN 150 | - | - | - | - | 973 |
| Inserting of PVC union connectors DN 150* | - | - | - | - | 983 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

* We can additionally insert SML- or PE-HD outlets on appointment

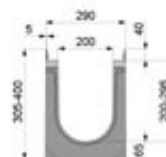
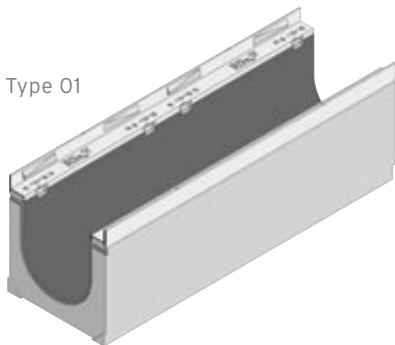
** Consumption for channel type 020: approx. 94 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER 200

FASERFIX®SUPER 200 - Channel lower parts

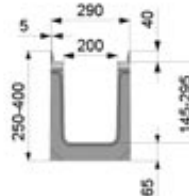
Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 | 1000 | 290 | 305 | 362 | 103,0 | 3000 |
| Type 010 | 1000 | 290 | 350 | 447 | 114,0 | 3042 |
| Type 020 | 1000 | 290 | 400 | 552 | 125,0 | 3044 |
| Type 0105 | 500 | 290 | 305 | 362 | 51,5 | 3049 |

FASERFIX®SUPER 200 - Channel lower parts angular

Type 01 E



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|------------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 E | 1000 | 290 | 305 | 386 | 104,5 | 3105 |
| Type 010 E | 1000 | 290 | 350 | 473 | 113,5 | 3106 |
| Type 020 E | 1000 | 290 | 400 | 568 | 124,5 | 3107 |

FASERFIX®SUPER 200

FASERFIX®SUPER 200 - Gratings, class E 600

GUGI-Ductile iron mesh grating MW 20/30, black



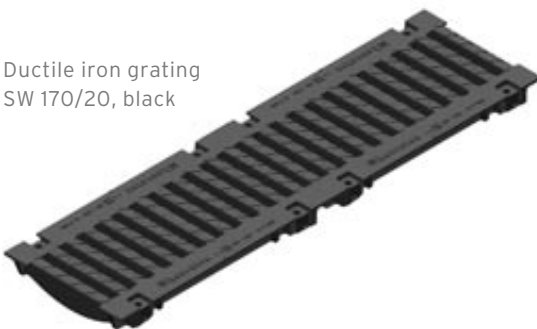
Ductile iron grating closed, black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 277 | 40 | 818 | 13,8 | 3068 |
| Ductile iron grating closed, black | 500 | 277 | 40 | 0 | 13,4 | 3262 |

FASERFIX®SUPER 200 - Gratings, class F 900

Ductile iron grating SW 170/20, black



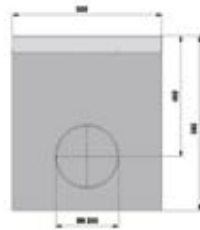
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 170/20, black | 500 | 277 | 40 | 833 | 13,6 | 3061 |

FASERFIX®SUPER 200

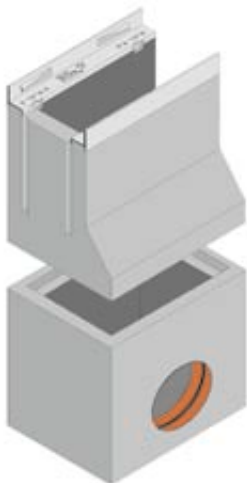
FASERFIX®SUPER 200 - Accessories



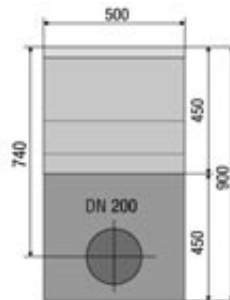
Trash box with galvanised bucket



Foul air trap DN 150



Trash box, 2-pieces with galvanised bucket



PVC - connection DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Trash box with galvanised bucket | 500 | 290 | 582 | 80,0 | 3052 |
| Trash box, 2-pieces with galvanised bucket | 500 | 290 | 900 | 190,5 | 3054 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |

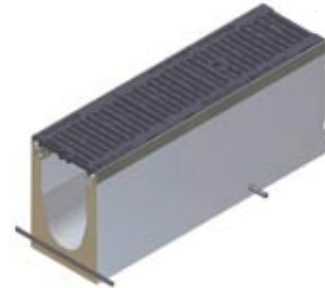
FASERFIX®SUPER 200



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**



End cap closed, galvanised, Type 01



Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| PVC - connection DN 150 | - | - | - | 0,5 | 906 |
| End cap closed, galvanised, Type 01 | - | 290 | 305 | 1,3 | 3081 |
| End cap closed, galvanised, Type 010 | - | 290 | 350 | 1,6 | 3082 |
| End cap closed, galvanised, Type 020 | - | 290 | 400 | 1,8 | 3083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 01 | - | 290 | 305 | 1,6 | 3091 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 290 | 400 | 2,0 | 3093 |
| Cutting to length of NW 200 | - | - | - | - | 992 |
| Mitre cuts of NW 200 (two cuts per connection) | - | - | - | - | 997 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

* We can additionally insert SML- or PE-HD outlets on appointment

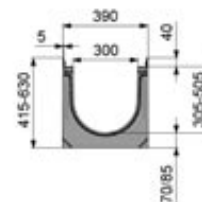
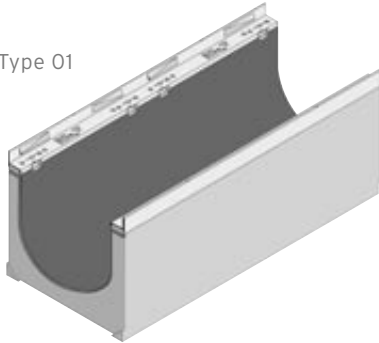
** Consumption for channel type 020: approx. 105 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER 300

FASERFIX®SUPER 300 - Channel lower parts

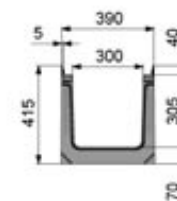
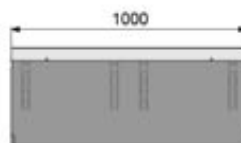
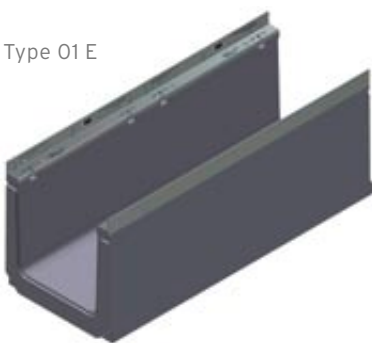
Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 | 1000 | 390 | 415 | 803 | 157,0 | 4000 |
| Type 020 | 1000 | 390 | 630 | 1202 | 260,0 | 4044 |
| Type 0105 | 500 | 390 | 415 | 803 | 75,0 | 4001 |

FASERFIX®SUPER 300 - Channel lower parts angular

Type 01 E



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 E | 1000 | 390 | 415 | 900 | 150,0 | 4105 |

FASERFIX®SUPER 300

FASERFIX®SUPER 300 - Gratings, class C 250

Ductile iron grating
SW 2 x 140/20, black



Mesh grating MW 30/15,
galvanised



Mesh grating MW 30/30,
galvanised



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 2 x 140/20, black | 500 | 377 | 40 | 1328 | 18,7 | 4064 |
| Mesh grating MW 30/15, galvanised | 1000 | 377 | 40 | 2127 | 32,1 | 4075 |
| Mesh grating MW 30/15, galvanised | 500 | 377 | 40 | 2127 | 17,0 | 4076 |
| Mesh grating MW 30/30, galvanised | 1000 | 377 | 40 | 2355 | 29,1 | 4073 |
| Mesh grating MW 30/30, galvanised | 500 | 377 | 40 | 2355 | 15,2 | 4074 |

FASERFIX®SUPER 300 - Gratings, class D 400*

Ductile iron grating
SW 2 x 140/20, black



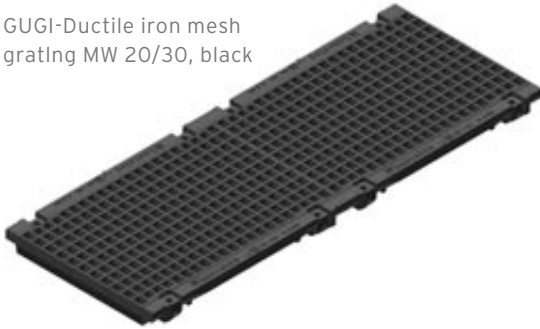
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 2 x 140/20, black | 500 | 377 | 40 | 1328 | 20,6 | 4063 |

* Not for use across the carriageway of highways or motorways in moving traffic.

FASERFIX®SUPER 300

FASERFIX®SUPER 300 - Gratings, class E 600

GUGI-Ductile iron mesh
grating MW 20/30, black



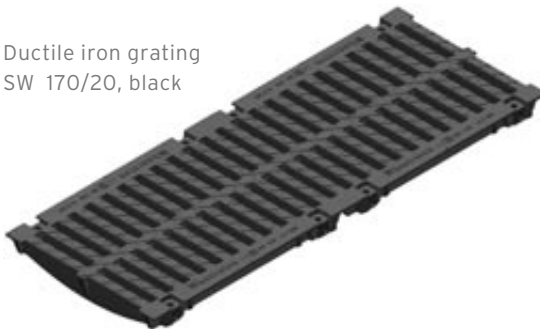
Ductile iron grating closed,
black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 377 | 40 | 1071 | 21,8 | 4068 |
| Ductile iron grating closed, black | 500 | 377 | 40 | 0 | 21,5 | 4262 |

FASERFIX®SUPER 300 - Gratings, class F 900

Ductile iron grating
SW 170/20, black



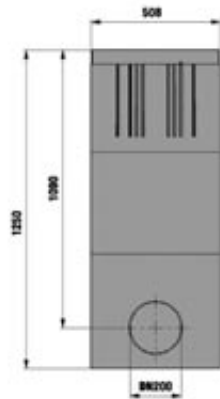
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 170/20, black | 500 | 377 | 40 | 1328 | 23,5 | 4061 |

FASERFIX®SUPER 300

FASERFIX®SUPER 300 - Accessories



Trash box with galvanised bucket, two parts with ductile iron grating SW 2 x 140/20, black, class F 900



End cap closed, galvanised, type 01

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box with galvanised bucket, two parts with ductile iron grating SW 2 x 140/20, black, class F 900 | 510 | 390 | 850 | 207,0 | 4052 |
| Intersection units, two parts with ductile iron grating, closed, black, class E 600 | 510 | 390 | 850 | 207,0 | 4352 |
| Extension part | 510 | 390 | 400 | 82,0 | 4054 |
| PVC-Connection DN 200 | - | - | - | 0,8 | 907 |
| End cap closed, galvanised, type 01 | - | 390 | 415 | 2,5 | 4081 |
| End cap closed, galvanised, type 020 | - | 390 | 630 | 3,8 | 4083 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, type 01 | - | 390 | 415 | 3,0 | 4085 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, type 020 | - | 390 | 630 | 4,5 | 4088 |
| Cutting to length of NW 300 | - | - | - | - | 993 |
| Mitre cuts of NW 300 (two cuts per connection) | - | - | - | - | 998 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

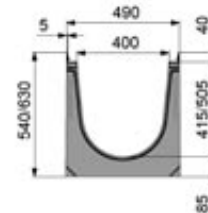
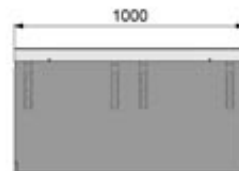
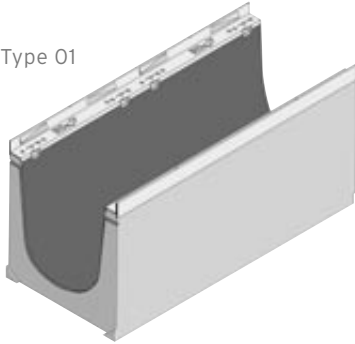
** Consumption for channel type 020: approx. 169 ml per joint.

* We can additionally insert SML- or PE-HD outlets on appointment
The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER 400

FASERFIX®SUPER 400 - Channel lower parts

Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 | 1000 | 490 | 540 | 1398 | 248,0 | 4111 |
| Type 01H | 1000 | 490 | 630 | 1758 | 268,0 | 4116 |

FASERFIX®SUPER 400 - Gratings, class D 400*

Ductile iron grating
SW 3x 120/20, black

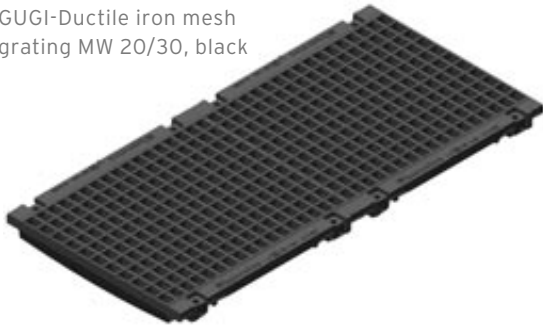
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 3x 120/20, black | 500 | 477 | 40 | 1618 | 25,0 | 4163 |

* Not for use across the carriageway of highways or motorways in moving traffic.

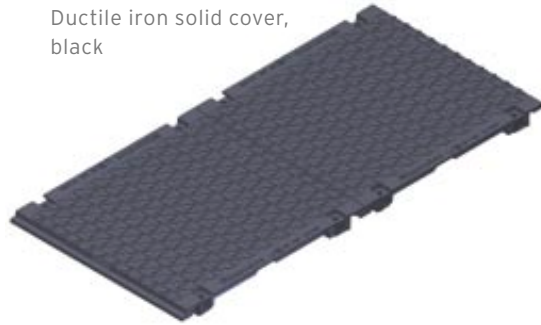
FASERFIX®SUPER 400

FASERFIX®SUPER 400 - Gratings, class E 600

GUGI-Ductile iron mesh grating MW 20/30, black



Ductile iron solid cover, black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 477 | 40 | 1634 | 30,0 | 4168 |
| Ductile iron solid cover, black | 500 | 477 | 40 | 0 | 32,0 | 4362 |

FASERFIX®SUPER 400 - Gratings, class F 900

Ductile iron grating SW 3 x 120/20, black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 3 x 120/20, black | 500 | 477 | 40 | 1618 | 38,7 | 4161 |

FASERFIX®SUPER 400

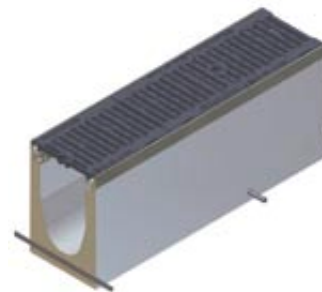
FASERFIX®SUPER 400 - Accessories



Sealing material Masterflex 700 FR
Gun Grade, cartridge 450 ml**



End cap closed, galvanised,
Type 01



Fixing-system EP, empty conduit
in the channel bottom, (2 pieces
per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| End cap closed, galvanised, Type 01 | - | 490 | 540 | 4,8 | 4091 |
| End cap closed, galvanised, Type 01H | - | 490 | 630 | 5,1 | 4092 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, Type 01 | - | 490 | 540 | 5,6 | 4093 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, Typ 01H | - | 490 | 630 | 5,9 | 4097 |
| Cutting to length of NW 400 | - | - | - | - | 985 |
| Mitre cuts of NW 400 (Two parts per connection) | - | - | - | - | 949 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

* We can additionally insert SML- or PE-HD outlets on appointment

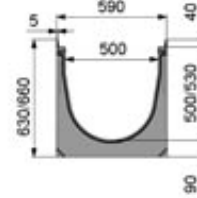
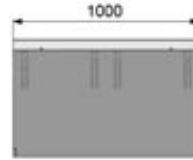
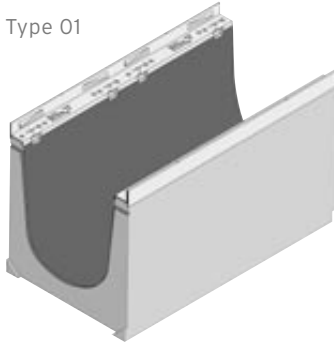
** Consumption for channel type 020: approx. 172 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®SUPER 500

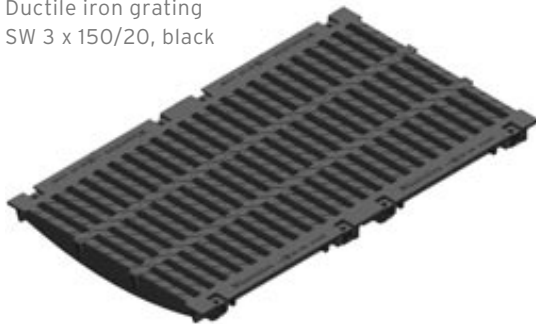
FASERFIX®SUPER 500 - Channel lower parts

Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|---------|--------------|-------------|--------------|--|--------------|-------------|
| Type 01 | 1000 | 590 | 630 | 2141 | 303,0 | 4121 |

FASERFIX®SUPER 500 - Gratings, class E 600

Ductile iron grating
SW 3 x 150/20, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 3 x 150/20, black | 500 | 577 | 40 | 2061 | 45,0 | 4182 |

FASERFIX®SUPER 500

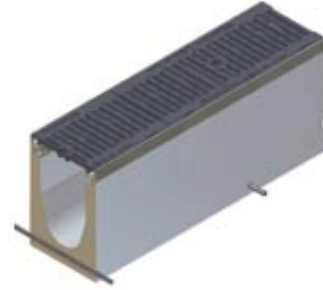
FASERFIX®SUPER 500 - Accessories



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**



End cap closed, galvanised, Type 01



Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre)

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| End cap closed, galvanised, Type 01 | - | 590 | 630 | 7,5 | 4096 |
| End cap with horizontal UOVC-outlet DN 200, galvanised, Type 01 | - | 590 | 630 | 8,0 | 4095 |
| Cutting to length of NW 500 | - | - | - | - | 989 |
| Mitre cuts of NW 500 (two cuts per connection) | - | - | - | - | 959 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Inserting of PVC union connectors DN 200* | - | - | - | - | 984 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |
| Fixing-system EP, empty conduit in the channel bottom, (2 pieces per running metre) | - | - | - | - | 703 |
| Steelbars for fixing system (2 pieces per running metre) | - | - | - | - | 704 |

* We can additionally insert SML- or PE-HD outlets on appointment

** Consumption for channel type 020: approx. 178 ml per joint.

The quality of the stainless steel material is according CNS 1.4301.

FASERFIX®BIG

RELIABLE DRAINAGE - EASY TO INSTALL.
FOR MAXIMUM LOADS IN HEAVY ROAD TRAFFIC





AT A GLANCE

- ✓ Bespoke channels with very high lateral strength
- ✓ For service under very heavy loads
- ✓ Easy to seal
- ✓ General building regulation approval
- ✓ Complies with DIN EN 1433
- ✓ Anti-slip face protection in galvanised steel

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REQUIREMENTS

Depending on the location, drainage channels can be exposed to strong dynamic forces and extreme loads under heavy road traffic conditions. In these situations the strength of the surface and sidewalls of the channel construction are severely tested. Depending on the type of duty (e.g. filling stations and tank installations) it is mandatory to prevent fuel and oils from entering into the ground. Various regulations have to be complied with such as 'Quality guideline for concrete paving slabs at filling stations' (GBT), LAWA/KIWA guidelines, § 19 of the Water Resources Act (WHG), DIN 1045 and DIN EN 1433.



FASERFIX BIG channels have the benefit of a general building control approval issued by the DIBt.

SOLUTION

FASERFIX BIG channels are heavy-duty channels made from fibre-reinforced concrete or concrete C 35/45 XF4. The edge protection and grating support surfaces consist of corrosion-protected steel angle housings or stainless steel angle housings. All channel base segments feature safety joints which can be sealed by the contractor against liquid ingress using MASTERFLEX 700 FR gun grade polysulphide sealer. The official material testing station at Karlsruhe University has tested the channel base segments in accordance with the 'Quality guideline for concrete paving slabs in filling stations' (GBT) and for compliance with DIN 1045. We are happy to send you copies of the test certificates of tests for exposure to petrol, diesel or kerosene.

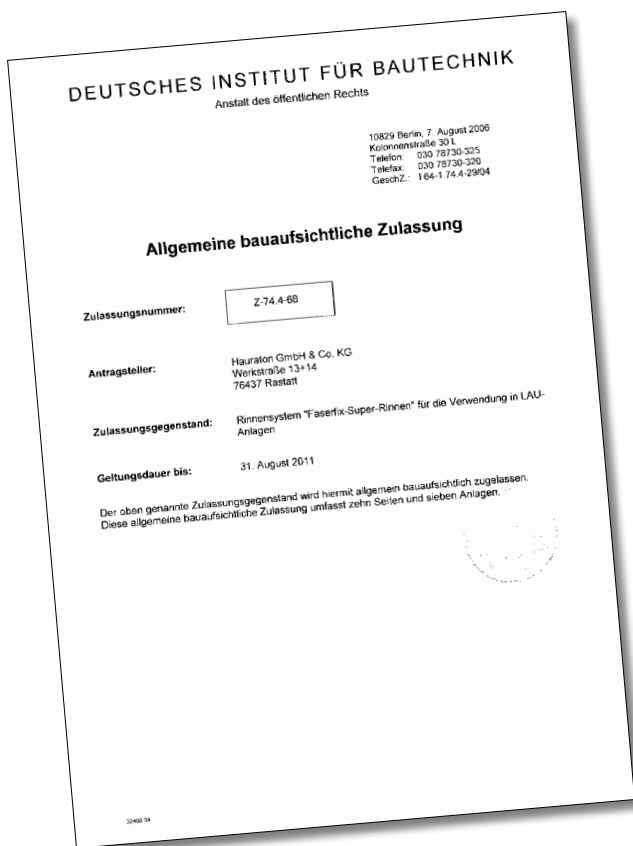
Where it is imperative to install a system that is perfectly sealed against the ingress of liquids, it is possible to form a sealing joint along the top edge of the channels in accordance with IVD Technical Note No. 6. FASERFIX BIG channels with concrete casing offer very high lateral strength; structural breaking load evidence is available in accordance with SLW 60 of DIN 1072. These channels do not require costly works during installation, such as additional in-situ concrete casings. Where the application requires mandatory or desired integrity against liquids, the long channel lengths of up to 4 m result in considerable savings since significantly less joints have to be sealed. FASERFIX BIG SL channels are made from fibre-reinforced concrete and include a wear-resistant galvanised steel face protection of the concrete casing.



FASERFIX BIG channels for maximum load applications.



Long channel segments mean fast and efficient installation.



They are particularly suited for locations with frequent and heavy load exposure and feature good-looking slip-resistant surfaces of the concrete casing. The gratings for the FASERFIX BIG channels are made from ductile iron and are attached to the channel angle housing using the SIDE-LOCK boltless locking system for safe fixing. The classification and testing meets the requirements of DIN EN 1433. In case of special requirements regarding resistance to chemicals, FASERFIX BIG channels can also be coated with approved coating systems; to be carried out by the contractor. We would be happy to let you have a list of contractors with approval in accordance with § 19 WHG.

APPLICATION AREAS

For all areas with heavy road traffic, such as ports, storage yards and production facilities, container stations and airports. Filling stations and tank installations where channels sealed against fuel ingress are required in accordance with the 'Quality guideline for concrete paving slabs at filling stations' (GBT) and the LAWA-/KIWA guidelines. For the drainage of polluted wastewater and for collecting and retaining extinguishing water.

TEST CERTIFICATES

The official material testing station at Karlsruhe University has successfully tested the FASERFIX BIG channels in accordance with the 'Quality guideline for concrete paving slabs in filling stations' (GBT). These tests are designed to measure the penetration depth of diesel, petrol and kerosene. We are happy to send you copies of the test certificates.

FASERFIX BIG channels have the benefit of the general building control approval by the DIBt:

FASERFIX BIG SL channels, approval no. Z-74.4-67

FASERFIX BIG BL channels, approval no. Z-74.4-66

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FASERFIX BIG channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:



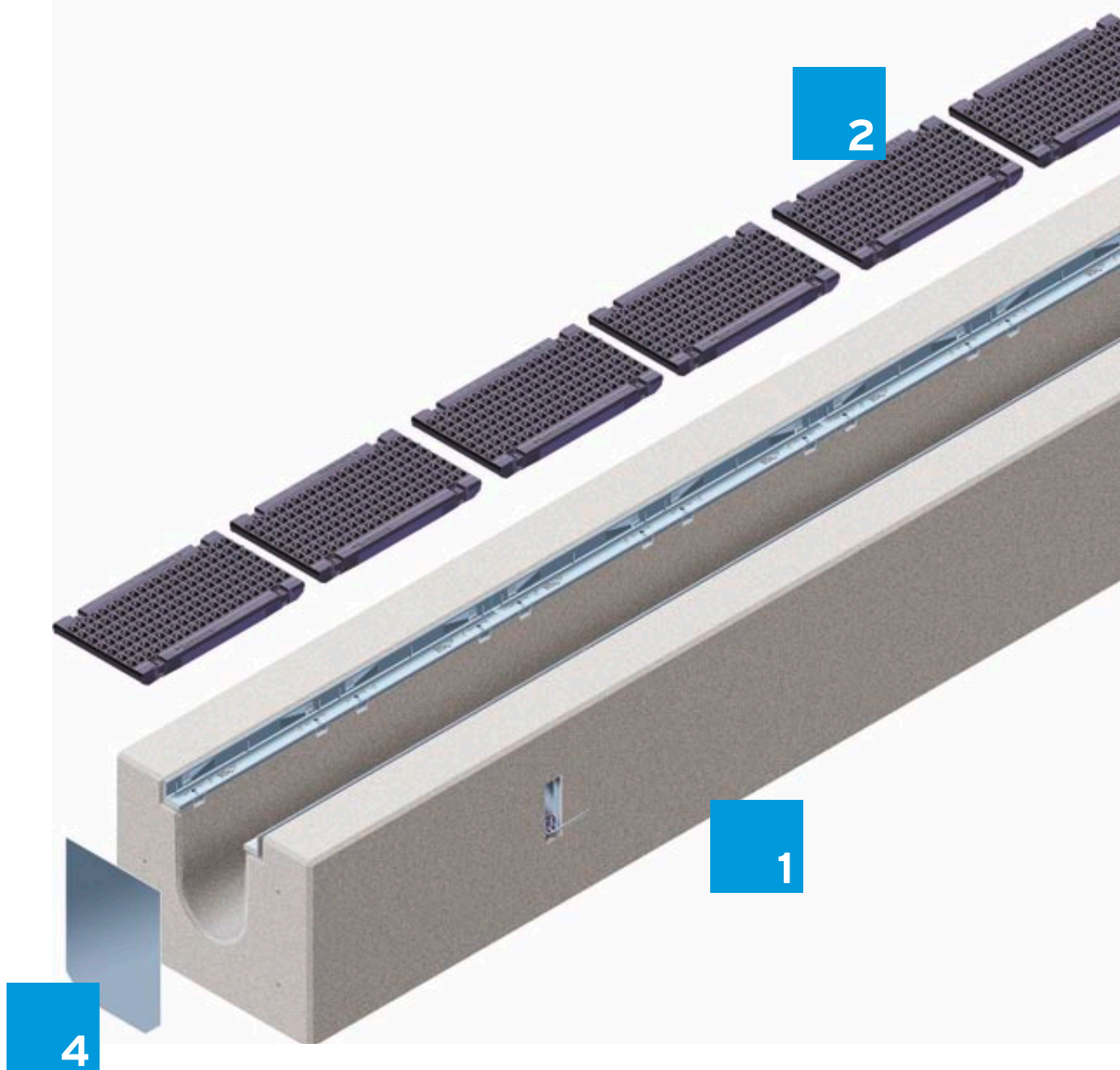
**CATEGORY D 400,
LOAD CLASS 400 KN**

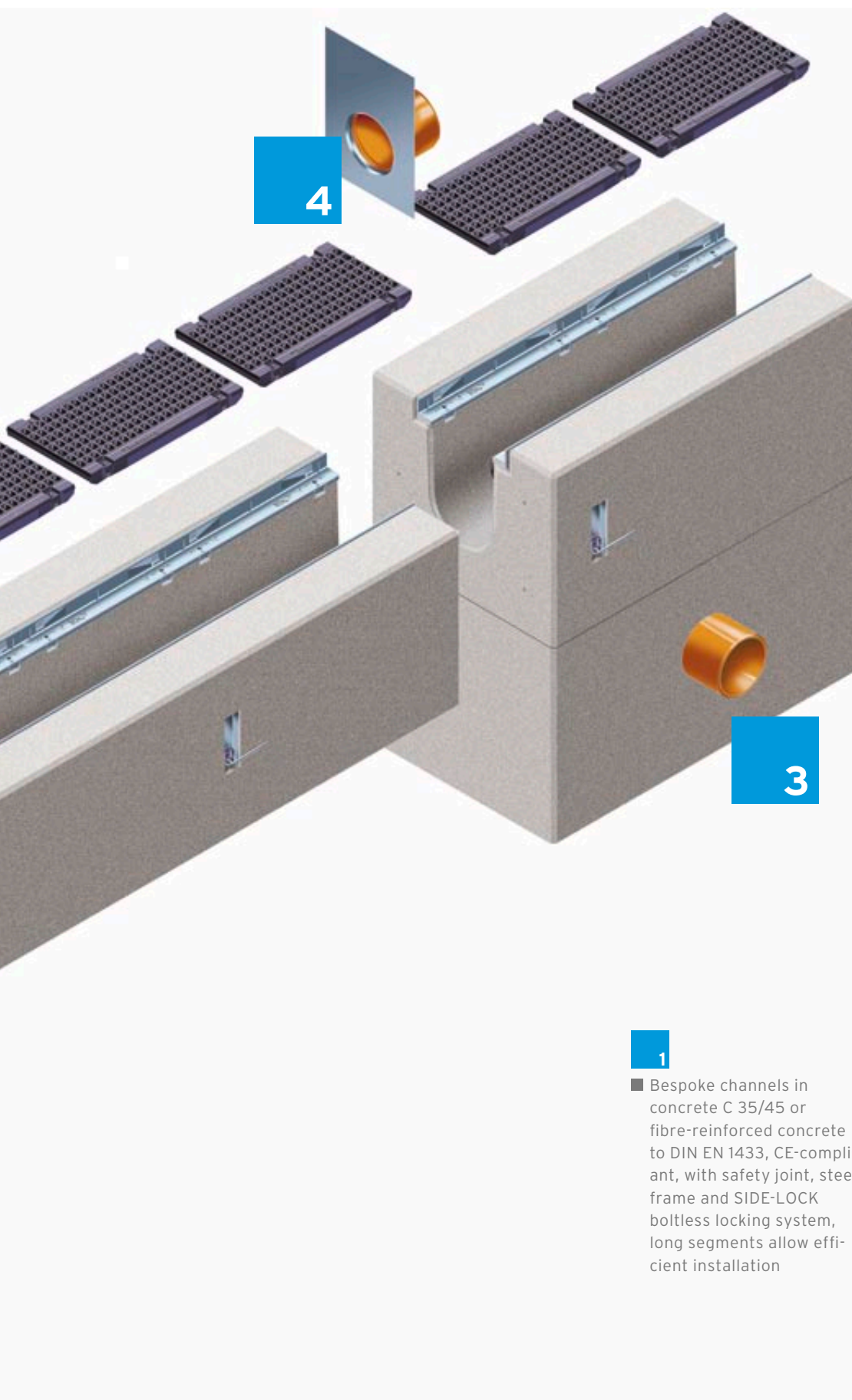


**CATEGORY E 600,
LOAD CLASS 600 KN**



**CATEGORY F 900,
LOAD CLASS 900 KN**





1

- Bespoke channels in concrete C 35/45 or fibre-reinforced concrete to DIN EN 1433, CE-compliant, with safety joint, steel frame and SIDE-LOCK boltless locking system, long segments allow efficient installation

2

- Numerous grating options, e.g. GUGI-Ductile iron mesh gratings

3

- Inlet bucket with integrated KG sleeve in DN 150 and galvanised steel bucket

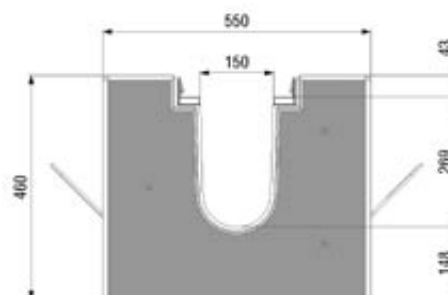
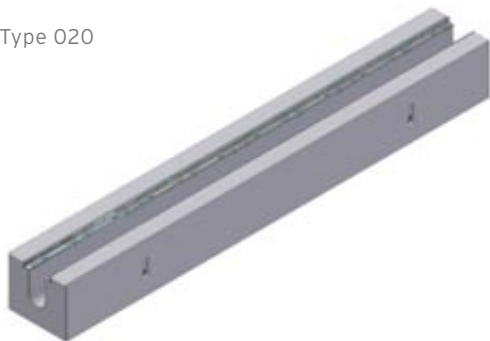
4

- End caps with and without outlets

FASERFIX®BIG BL 150

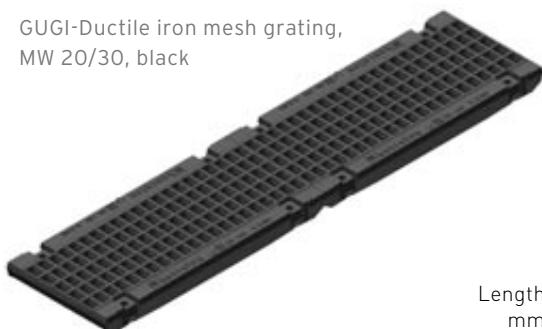
FASERFIX®BIG BL 150 - Channel lower parts

Type 020



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 020 | 4000 | 550 | 460 | 383 | 2010,0 | 2744 |

FASERFIX®BIG BL 150 - Gratings, class E 600

GUGI-Ductile iron mesh grating,
MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, MW 20/30, black | 500 | 227 | 40 | 628 | 11,5 | 2068 |

FASERFIX®BIG BL 150 - Gratings, class F 900

Ductile iron grating
SW 150/20, black

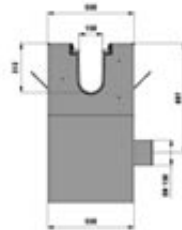
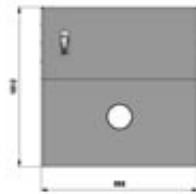
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 150/20, black | 500 | 227 | 40 | 710 | 9,8 | 2061 |

FASERFIX®BIG BL 150

FASERFIX®BIG BL 150 - Accessories



Trash box element with KG-sleeve
DN 150 and galvanised bucket



Foul air trap DN 150



Foul air trap DN 100, outside



UPVC-outlet DN 100



PVC - connection DN 150

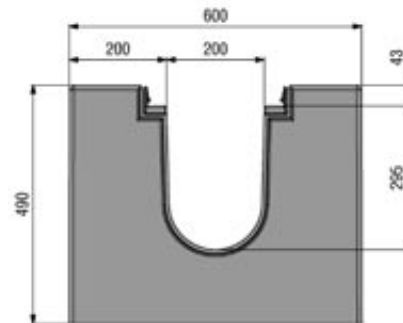
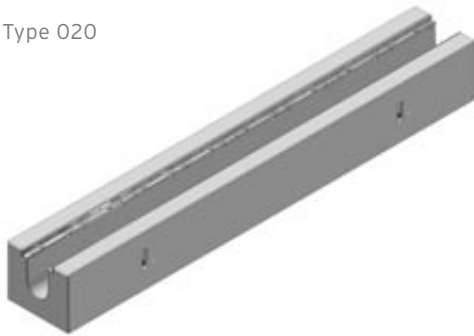
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box element with KG-sleeve DN 150 and galvanised bucket | 1000 | 550 | 1010 | 680,0 | 2755 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| UPVC-outlet DN 100 | - | - | - | 0,2 | 903 |
| PVC - connection DN 150 | - | - | - | 0,5 | 906 |
| End cap closed, galvanised, Type 020 | - | 240 | 369 | 1,3 | 2083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 240 | 369 | 1,7 | 2093 |
| Cutting to length | - | - | - | - | 891 |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 |
| Drilling of connection holes | - | - | - | - | 893 |
| Inserting of PVC union connectors | - | - | - | - | 894 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |

** Consumption of sealing material: approx. 117 ml per joint.

FASERFIX®BIG BL 200

FASERFIX®BIG BL 200 - Channel lower parts

Type 020



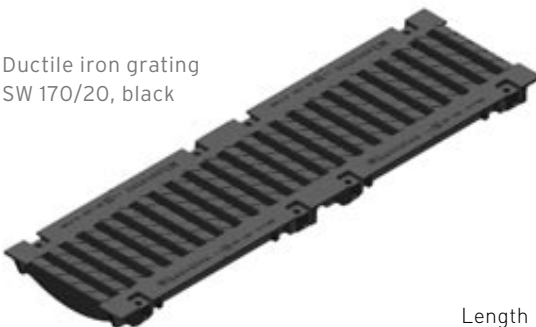
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 020 | 4000 | 600 | 490 | 552 | 2148,0 | 3744 |

FASERFIX®BIG BL 200 - Gratings, class E 600

GUGI-Ductile iron mesh grating
MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 277 | 40 | 818 | 13,8 | 3068 |

FASERFIX®BIG BL 200 - Gratings, class F 900

Ductile iron grating
SW 170/20, black

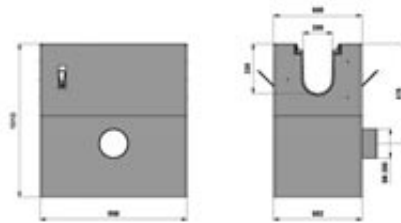
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 170/20, black | 500 | 277 | 40 | 833 | 13,6 | 3061 |

FASERFIX®BIG BL 200

FASERFIX®BIG BL 200 - Accessories



Trash box element with KG-muffle
DN 200 and galvanised bucket



Foul air trap DN 150



Foul air trap DN 100, outside



UPVC-outlet DN 100



PVC - connection DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box element with KG-muffle DN 200 and galvanised bucket | 1000 | 600 | 1013 | 680,0 | 3755 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| UPVC-outlet DN 100 | - | - | - | 0,2 | 903 |
| PVC - connection DN 150 | - | - | - | 0,5 | 906 |
| End cap closed, galvanised, Type 020 | - | 290 | 400 | 1,8 | 3083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 290 | 400 | 2,0 | 3093 |
| Cutting to length | - | - | - | - | 891 |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 |
| Drilling of connection holes | - | - | - | - | 893 |
| Inserting of PVC union connectors | - | - | - | - | 894 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |

** Consumption of sealing material: approx. 125 ml per joint.

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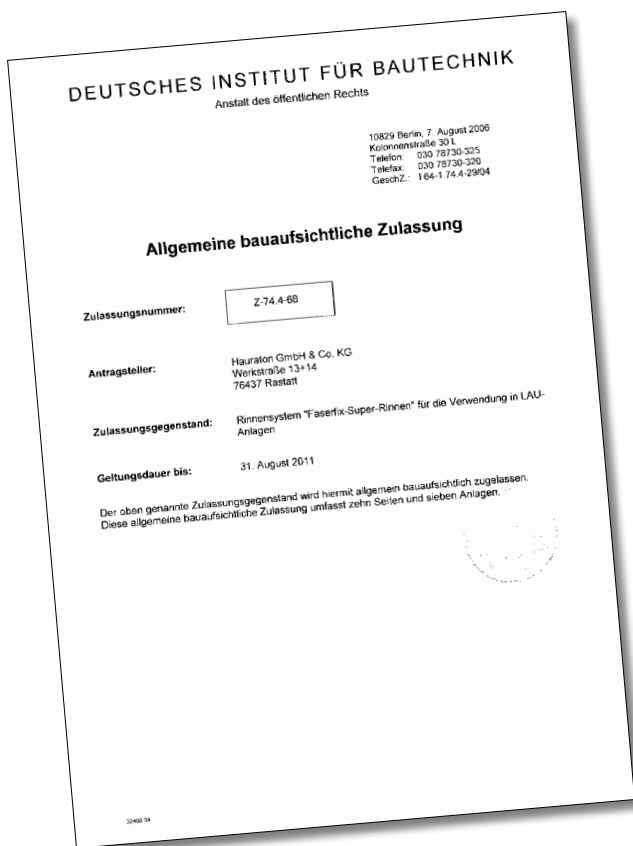
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FASERFIX BIG SL channels, approval no. Z-74.4-67

FASERFIX BIG BL channels, approval no. Z-74.4-66

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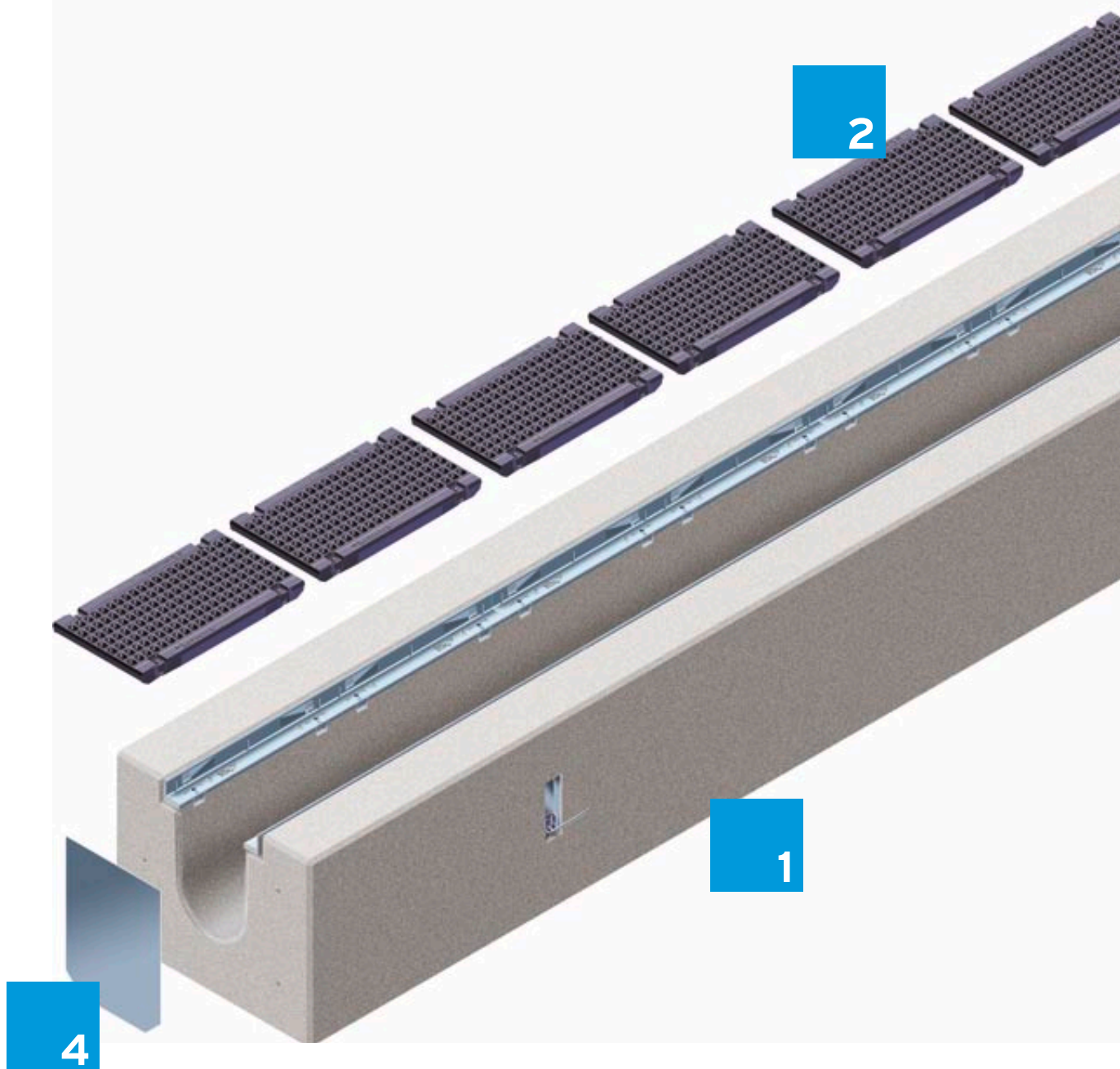
**CATEGORY D 400,
LOAD CLASS 400 KN**

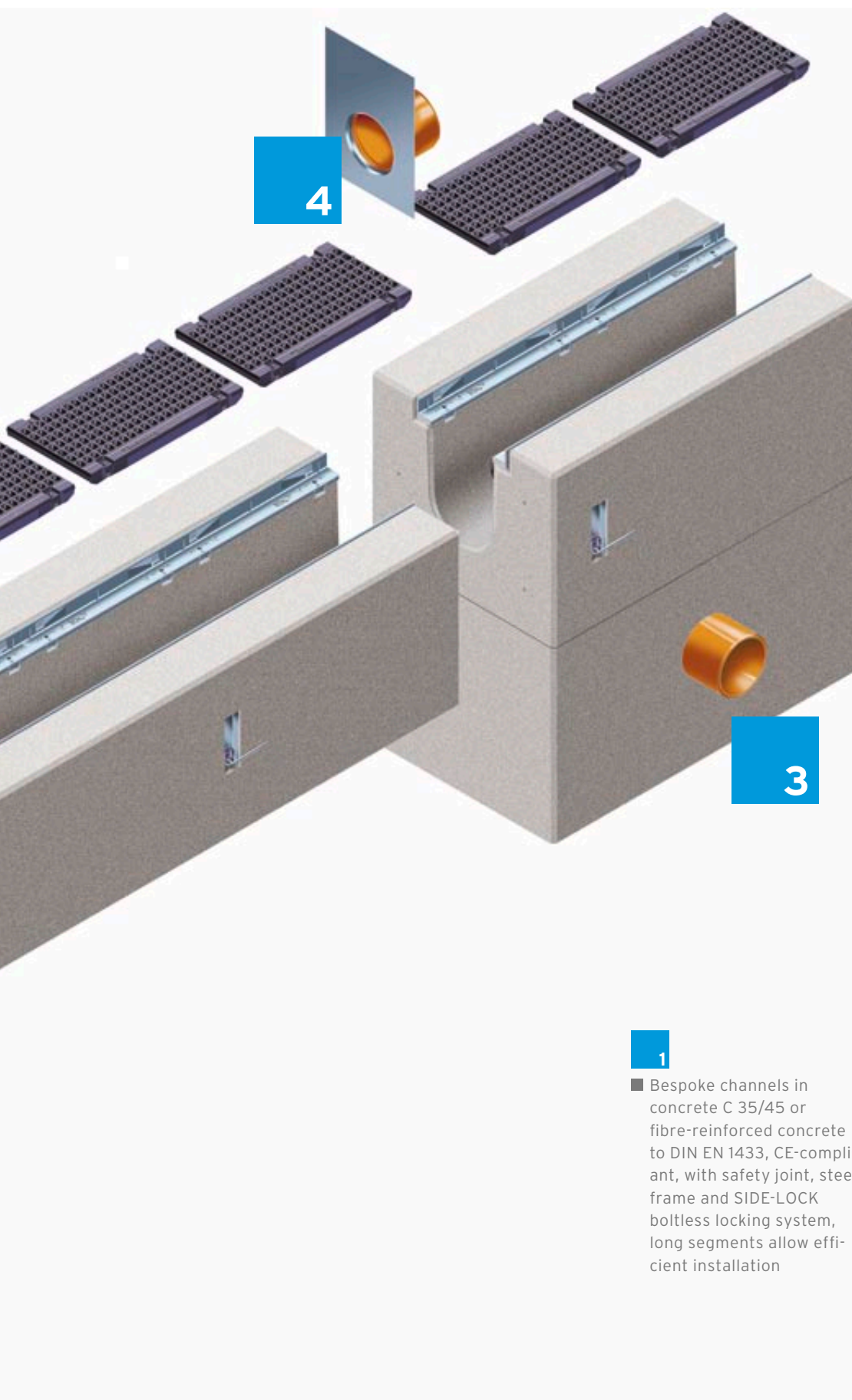


**CATEGORY E 600,
LOAD CLASS 600 KN**



**CATEGORY F 900,
LOAD CLASS 900 KN**





1

- Bespoke channels in concrete C 35/45 or fibre-reinforced concrete to DIN EN 1433, CE-compliant, with safety joint, steel frame and SIDE-LOCK boltless locking system, long segments allow efficient installation

2

- Numerous grating options, e.g. GUGI-Ductile iron mesh gratings

3

- Inlet bucket with integrated KG sleeve in DN 150 and galvanised steel bucket

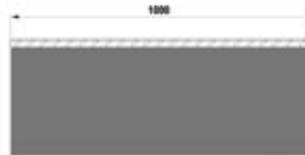
4

- End caps with and without outlets

FASERFIX®BIG SL 100

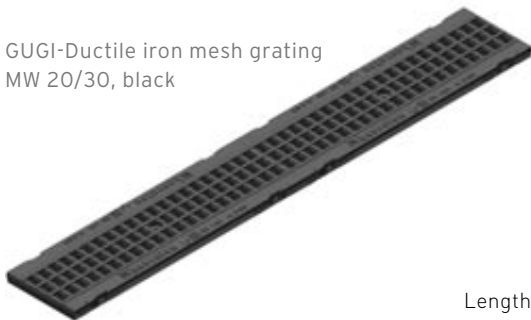
FASERFIX®BIG SL 100 - Channel lower parts

Type 020



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 020 | 1000 | 392 | 384 | 206 | 276,0 | 1844 |

FASERFIX®BIG SL 100 - Gratings, class E 600

GUGI-Ductile iron mesh grating
MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 149 | 20 | 426 | 4,0 | 8079 |

FASERFIX®BIG SL 100 - Gratings, class F 900

Ductile iron grating
SW 100/14, black

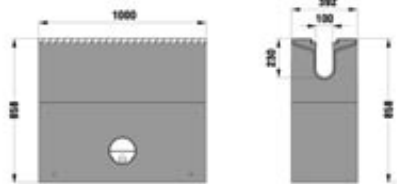
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 100/14, black | 500 | 149 | 20 | 454 | 4,5 | 8061 |

FASERFIX®BIG SL 100

FASERFIX®BIG SL 100 - Accessories



Trash box element with KG-pipe DN 150 and galvanised mud bucket



Foul air trap DN 100, outside



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**

| | Length mm | Width mm | Height mm | Weight kg | Article No. galva- nised | Article No. stain- less steel |
|--|--------------|-------------|--------------|--------------|-----------------------------|----------------------------------|
| Trash box element with KG-pipe DN 150 and gal- vanised mud bucket | 1000 | 392 | 930 | 656,0 | 1850 | - |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 | - |
| End cap closed, Type 020 | - | 160 | 274 | 0,7 | 8083 | 8183 |
| End cap with horizontal UPVC-outlet DN 100, Type 020 | - | 160 | 274 | 0,8 | 8089 | 8187 |
| Cutting to length | - | - | - | - | 891 | - |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 | - |
| Drilling of connection holes | - | - | - | - | 893 | - |
| Inserting of PVC union connectors | - | - | - | - | 894 | - |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 | - |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 | - |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 | - |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 | - |

** Consumption of sealing material: approx. 117 ml per joint.

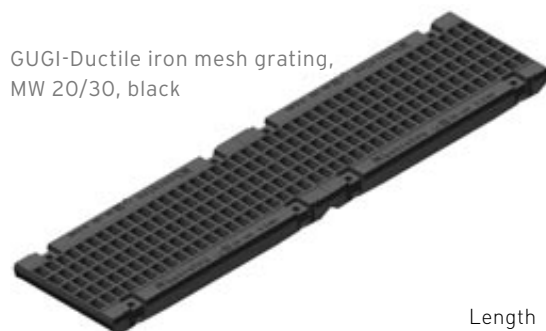
FASERFIX®BIG SL 150

FASERFIX®BIG SL 150 - Channel lower parts



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 020 | 1000 | 392 | 447 | 383 | 312,0 | 2944 |

FASERFIX®BIG SL 150 - Gratings, class E 600



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating, MW 20/30, black | 500 | 227 | 40 | 628 | 11,5 | 2068 |

FASERFIX®BIG SL 150 - Gratings, class F 900



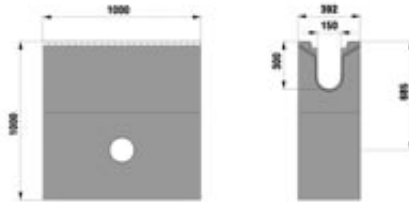
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 150/20, black | 500 | 227 | 40 | 710 | 9,8 | 2061 |

FASERFIX®BIG SL 150

FASERFIX®BIG SL 150 - Accessories



Trash box element with KG-pipe DN 150 and galvanised mud bucket



Foul air trap DN 150



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**

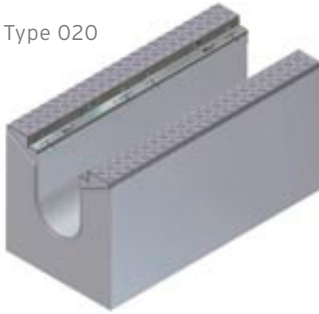
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box element with KG-pipe DN 150 and galvanised mud bucket | 1000 | 392 | 1000 | 692,0 | 2950 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| End cap closed, galvanised, Type 020 | - | 240 | 369 | 1,3 | 2083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 240 | 369 | 1,7 | 2093 |
| Cutting to length | - | - | - | - | 891 |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 |
| Drilling of connection holes | - | - | - | - | 893 |
| Inserting of PVC union connectors | - | - | - | - | 894 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |

** Consumption of sealing material: approx. 112 ml per joint.

FASERFIX®BIG SL 200

FASERFIX®BIG SL 200 - Channel lower parts

Type 020



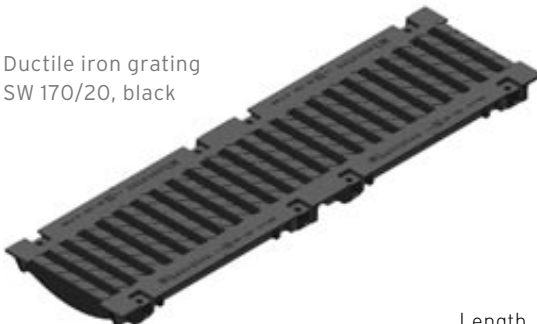
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 020 | 1000 | 492 | 520 | 552 | 525,0 | 3944 |

FASERFIX®BIG SL 200 - Gratings, class E 600

GUGI-Ductile iron mesh grating
MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 277 | 40 | 818 | 13,8 | 3068 |

FASERFIX®BIG SL 200 - Gratings, class F 900

Ductile iron grating
SW 170/20, black

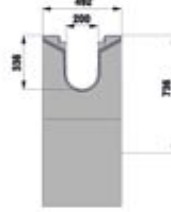
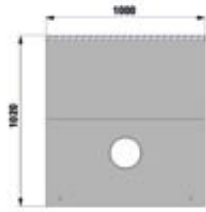
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 170/20, black | 500 | 277 | 40 | 833 | 13,6 | 3061 |

FASERFIX®BIG SL 200

FASERFIX®BIG SL 200 - Accessories



Trash box element with KG-pipe DN 200 and galvanised mud bucket



Foul air trap DN 150



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**

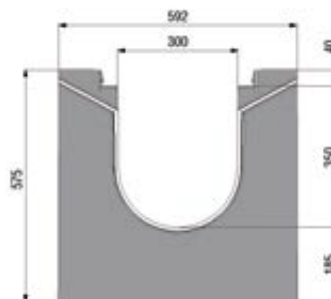
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box element with KG-pipe DN 200 and galvanised mud bucket | 1000 | 492 | 1020 | 945,0 | 3950 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| End cap closed, galvanised, Type 020 | - | 290 | 400 | 1,8 | 3083 |
| End cap with horizontal UPVC-outlet DN 150, galvanised, Type 020 | - | 290 | 400 | 2,0 | 3093 |
| Cutting to length | - | - | - | - | 891 |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 |
| Drilling of connection holes | - | - | - | - | 893 |
| Inserting of PVC union connectors | - | - | - | - | 894 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |

** Consumption of sealing material: approx. 129 ml per joint.

FASERFIX®BIG SL 300

FASERFIX®BIG SL 300 - Channel lower parts

Type 010



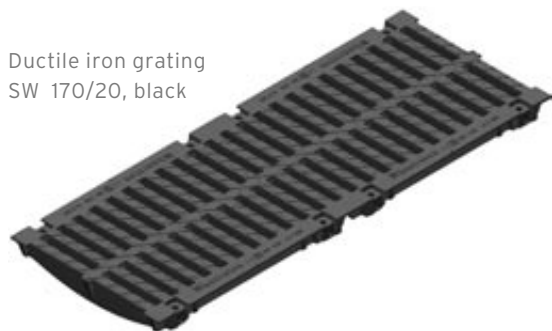
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|--|--------------|-------------|
| Type 010 | 1000 | 592 | 575 | 947 | 575,0 | 4942 |

FASERFIX®BIG SL 300 - Gratings, class E 600

GUGI-Ductile iron mesh
gratIng MW 20/30, black

| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh gratIng MW 20/30, black | 500 | 377 | 40 | 1071 | 21,8 | 4068 |

FASERFIX®BIG SL 300 - Gratings, class F 900

Ductile iron grating
SW 170/20, black

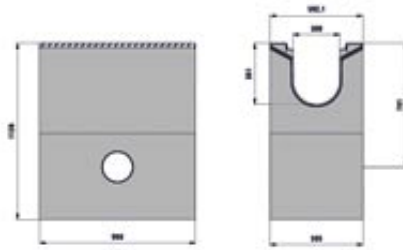
| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Ductile iron grating SW 170/20, black | 500 | 377 | 40 | 1328 | 23,5 | 4061 |

FASERFIX®BIG SL 300

FASERFIX®BIG SL 300 - Accessories



Trash box element with KG-pipe DN 200 and galvanised mud bucket



Foul air trap DN 150



Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml**

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box element with KG-pipe DN 200 and galvanised mud bucket | 1000 | 592 | 1125 | 1095,0 | 4950 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| End cap closed, galvanised, type 020 | - | 390 | 630 | 3,8 | 4083 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, type 020 | - | 390 | 630 | 4,5 | 4088 |
| Cutting to length | - | - | - | - | 891 |
| Mitre cuts (2 pieces per connection are necessary) | - | - | - | - | 892 |
| Drilling of connection holes | - | - | - | - | 893 |
| Inserting of PVC union connectors | - | - | - | - | 894 |
| Sealing material Masterflex 700 FR Gun Grade, cartridge 450 ml** | - | - | - | 1,0 | 19000 |
| Primer Masterflex 700 A SP, capacity 1000 ml | - | - | - | 1,0 | 20000 |
| Primer Masterflex 700 FE (steel), capacity 1000 ml | - | - | - | 1,1 | 19950 |
| Toolkit for sealing material Masterflex 700 FR Gun Grade | - | - | - | 3,1 | 10025 |

** Consumption of sealing material: approx. 155 ml per joint.

RECYFIX® SUPER KS RECYFIX® SUPER

DRAINS COMPLETELY - LIGHT AND ROBUST.
HIGH STABILITY FOR PUBLIC AND INDUSTRIAL AREAS.



A photograph of a park path paved with cobblestones. On the left, a row of dark, ornate bollards with red ropes is installed. The path is lined with large, mature trees on the right, and a red building is visible in the background through the trees. A red callout box is overlaid on the bottom right of the image.

AT A GLANCE

- ✓ Light and robust
- ✓ Quick and easy to install
- ✓ Up to loading capacity F 900, certified according EN 1433
- ✓ With SIDE-LOCK boltless locking system

RECYFIX®SUPER KS RECYFIX®SUPER

DRAINS COMPLETELY - LIGHT AND ROBUST.
HIGH STABILITY FOR PUBLIC AND INDUSTRIAL AREAS.

REQUIREMENTS

Reliable drainage and disposal of surface water is now mandatory in many areas. It is therefore under ever-tougher regulations that our RECYFIX®SUPER and RECYFIX®SUPER KS drainage system ranges have to operate. The ranges have applications in many different areas: in industrial and trading estates, exhibition centres, and train stations; in car parks and in town centres. Apart from the technical criteria that needs to be fulfilled, the channels must fit in aesthetically within their environment. Therefore flexibility and ability to adapt must be key aspects of the products.

SOLUTIONS

The channels in the RECYFIX®SUPER and RECYFIX®SUPER KS range provide economical and reliable solutions in areas with heavy traffic, up to load class F 900. They are made out of PE-PP and this gives them a definite edge in terms of weight - and therefore also in terms of ease of installation. Lateral stability and increased resistance to torsion are provided by galvanised or stainless steel angle housings equipped with the SIDE-LOCK boltless locking system. The locking system gives the many variants of gratings which are available added stability and structure, vertically and horizontally. The channels in the RECYFIX®SUPER and RECYFIX®SUPER KS range are resistant to freezing and to the salts used to de-ice roads and car parks and can be made watertight on-site using a supple product. The channels are certified according to EN 1433 and carry the CE quality mark.



Noisy Le Roi, France: the train station car park

APPLICATIONS

Industrial and trading estates, exhibition centres, train stations, car parks, urban centres, market squares, public squares, etc.



Public squares



Miscellaneous car parks



Airports



Entrances to courtyards and garages

RECYFIX® SUPER KS

RECYFIX® SUPER

DRAINS COMPLETELY - LIGHT AND ROBUST.
HIGH STABILITY FOR PUBLIC AND INDUSTRIAL AREAS.

RECYFIX® SUPER KS and RECYFIX® SUPER channels are certified according EN 1433 and can be installed in areas with the following loading capacities:



**CATEGORY A 15,
LOAD CLASS 15 KN**



**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**



**CATEGORY D 400,
LOAD CLASS 400 KN**



**CATEGORY E 600,
LOAD CLASS 600 KN**



**CATEGORY F 900,
LOAD CLASS 900 KN**



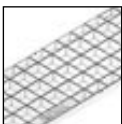



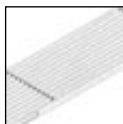
GENERAL INSTRUCTIONS FOR THE USE OF THE CHANNELS

- The channel installation advices provided in the "Laying Instructions" catalogue are for information purposes only. Their provision does not mean that project engineers can dispense with efforts to find installation solutions suitable for sites and the specific constraints encountered on the ground.
- Correct flow directions must be complied with (see arrows on the outsides of channels).
- Surface paving must be 3 mm to 5 mm higher than the level of the channels' upper edges.
- Expansion joints must be correctly positioned, in order to completely counteract horizontal expansion forces.
- Insert the channel gratings to ensure that the channels are rigid before pouring second-stage concrete.
- Detailed installation advices can be downloaded from our website, www.hauraton.com. These instructions are updated on a regular basis.

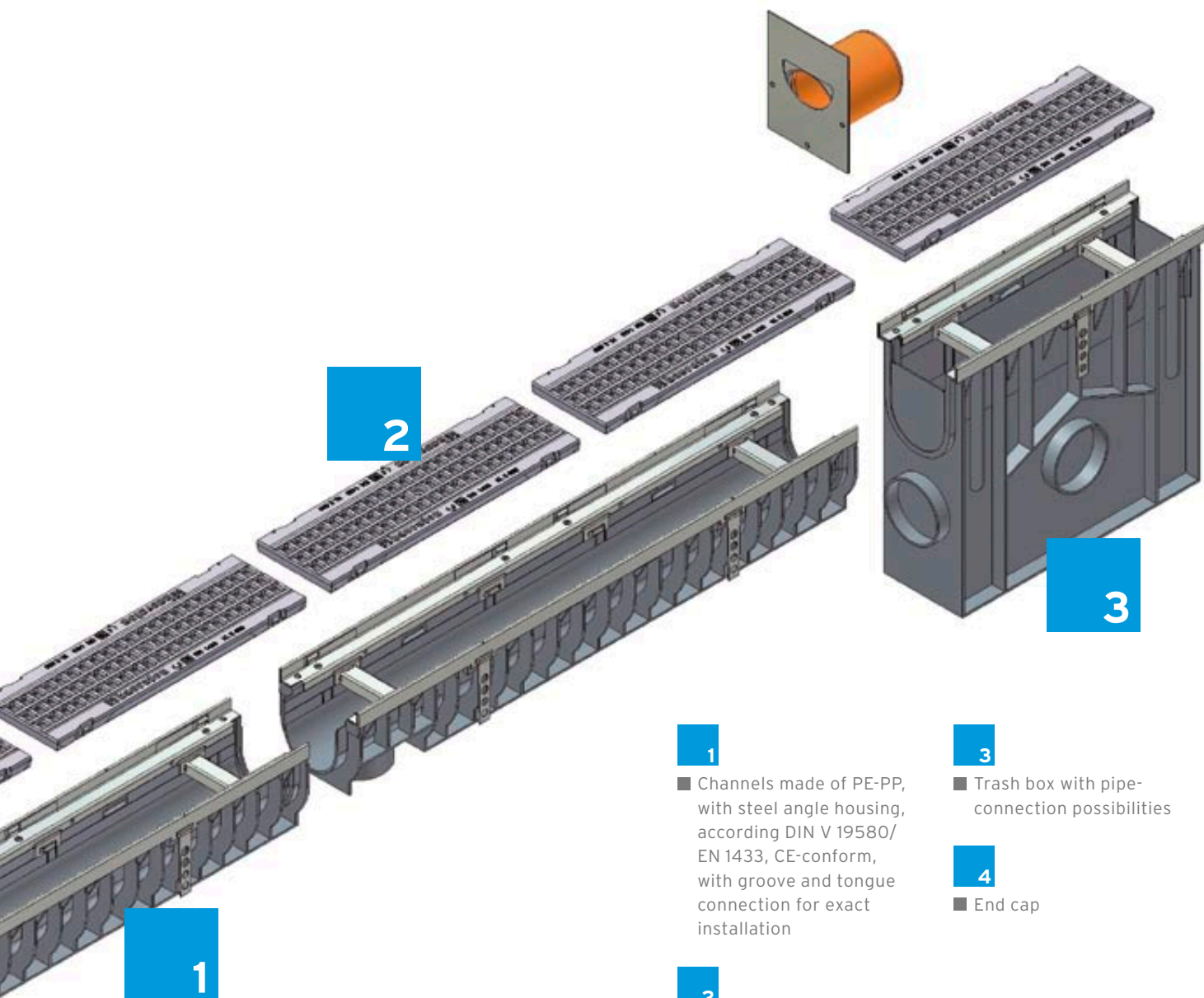
4

GRATINGS

FOR RECYFIX® SUPER KS CHANNELS AND RECYFIX® SUPER CHANNELS

| | GUGI-Ductile iron mesh grating* | | Ductile iron gratings* | | Mesh gratings* | | Reinforced slotted gratings | | Perforated gratings* | | Closed gratings* | | Longitudinal gratings | |
|--------------|---|-------|---|-------|---|-------|---|-------|--|-------|---|-------|---|-------|
| Load class |  | |  | |  | |  | |  | |  | |  | |
| | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER | SUPER KS | SUPER |
| A 15 | | | | | | | 100 | | | | | | 100 | |
| B 125 | | | | | 100 | | | | | | | | | |
| C 250 | | | 100, 150, 200 | 300 | 100, 150, 200 | | 100 | | 100 | | 100 | | | |
| D 400 | 150 | | 100, 150, 200 | 300 | 150 | | | | | | | | | |
| E 600 | 100, 150, 200 | 300 | 100, 150, 200 | 300 | 100, 150, 200 | | | | | | 100 | | | |
| F 900 | | | | 300 | | | | | | | | | | |

* The measurements listed are internal widths.



1

■ Channels made of PE-PP, with steel angle housing, according DIN V 19580/ EN 1433, CE-conform, with groove and tongue connection for exact installation

2

■ Numerous grating options, for example GUGI- Ductile iron mesh gratings

3

■ Trash box with pipe-connection possibilities

4

■ End cap

SAFETY GUARANTEED IN PEDESTRIAN ZONES

The RECYFIX®SUPER KS channels and the vast choice of gratings to go with them are also employed in pedestrian areas, market squares and other pedestrian areas. Ductile iron gratings with narrow openings have been specially designed to ensure the safety of pedestrians and as well as wheel chairs.



FASERFIX®SUPER KS

FASERFIX®BIG

FASERFIX®TRAFFIC

RECYFIX®SUPER KS

RECYFIX®PLUS X

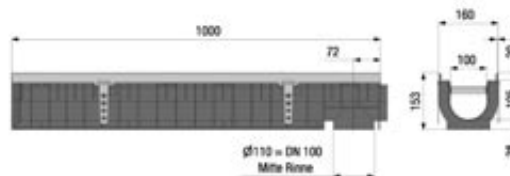
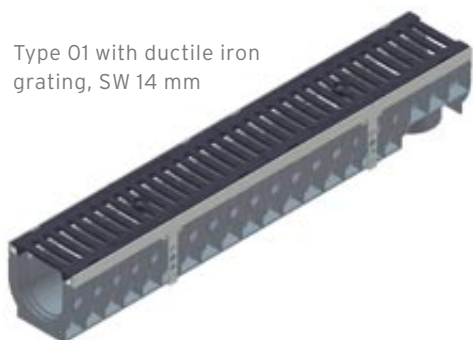
RECYFIX®HICAP

FASERFIX®POINT

RECYFIX®SUPER KS 100

RECYFIX®SUPER KS 100 - Combi article, class C 250

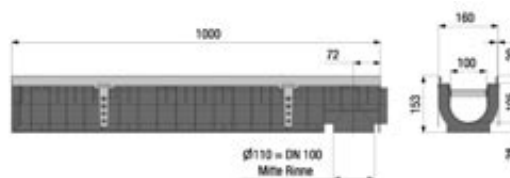
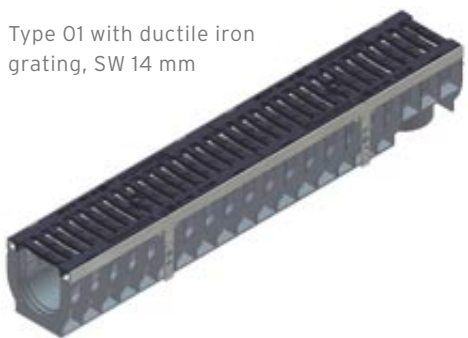
Type 01 with ductile iron grating, SW 14 mm



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating, SW 14 mm | 1000 | 160 | 153 | 92 | - | 12,2 | 41167 |
| Type 01 with ductile iron grating, SW 6 mm | 1000 | 160 | 153 | - | - | 12,1 | 41169 |
| Type 0105 with ductile iron grating, SW 14 mm | 500 | 160 | 153 | 92 | - | 6,1 | 41130 |
| Type 0105 with ductile iron grating, SW 6 mm | 500 | 160 | 153 | 92 | - | 6,0 | 41131 |

RECYFIX®SUPER KS 100 - Combi article, class D 400

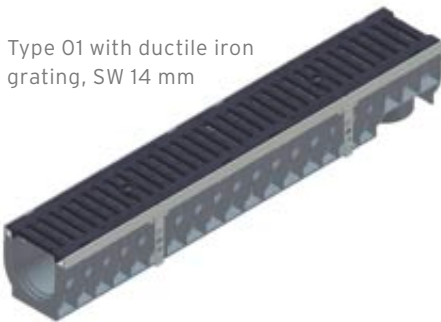
Type 01 with ductile iron grating, SW 14 mm



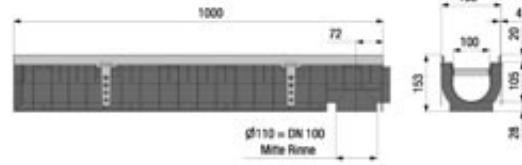
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating, SW 14 mm | 1000 | 160 | 153 | 92 | - | 12,5 | 41175 |
| Type 0105 with ductile iron grating, SW 14 mm | 500 | 160 | 153 | 92 | - | 6,4 | 41133 |

RECYFIX®SUPER KS 100

RECYFIX®SUPER KS 100 - Combi article, class E 600



Type 01 with ductile iron grating, SW 14 mm



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² /m | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|--|--|--------------|-------------|
| Type 01 with GUGI-ductile iron mesh grating, MW 20x30 | 1000 | 160 | 153 | 92 | - | 15,1 | 41180 |
| Type 01 with ductile iron grating, SW 14 mm | 1000 | 160 | 153 | 92 | - | 13,5 | 41177 |
| Type 01 with ductile iron grating, SW 6 mm | 1000 | 160 | 153 | 92 | - | 13,7 | 41179 |
| Type 0105 with GUGI-ductile iron mesh grating, MW 20x30 | 500 | 160 | 153 | 92 | - | 7,6 | 41135 |
| Type 0105 with ductile iron grating, SW 14 mm | 500 | 160 | 153 | 92 | - | 6,8 | 41136 |
| Type 0105 with ductile iron grating, SW 6 mm | 500 | 160 | 153 | 92 | - | 6,8 | 41137 |

RECYFIX®SUPER KS 100 - Accessories



Trash box with ductile iron grating, SW 14 mm, class C 250



End cap, galvanised



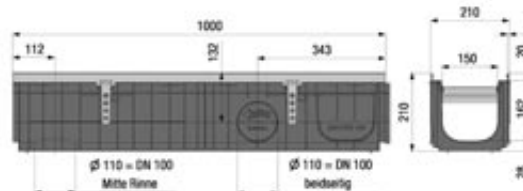
Foul air trap DN 100, inside

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| Trash box with ductile iron grating, SW 14 mm, class C 250 | 500 | 160 | 438 | 8,5 | 41140 |
| Trash box with ductile iron grating, SW 6 mm, class C 250 | 500 | 160 | 438 | 8,4 | 41141 |
| Trash box with ductile iron grating, SW 14 mm, class D 400 | 500 | 160 | 438 | 8,8 | 41143 |
| Trash box with GUGI-ductile iron mesh grating, MW 20x30, class E 600 | 500 | 160 | 438 | 10,0 | 41145 |
| Trash box with ductile iron grating, SW 14 mm, class E 600 | 500 | 160 | 438 | 9,2 | 41146 |
| Trash box with ductile iron grating, SW 6 mm, class E 600 | 500 | 160 | 438 | 9,2 | 41147 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| End cap, galvanised | - | 160 | 160 | 0,3 | 41181 |
| End cap, galvanised, with outlet DN 70 | - | 160 | 202 | 0,6 | 41186 |
| End cap, stainless steel | - | 160 | 160 | 0,3 | 41581 |
| End cap, stainless steel, with outlet DN 70 | - | 160 | 202 | 0,6 | 41586 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

RECYFIX®SUPER KS 150

RECYFIX®SUPER KS 150 - Combi article, class C 250

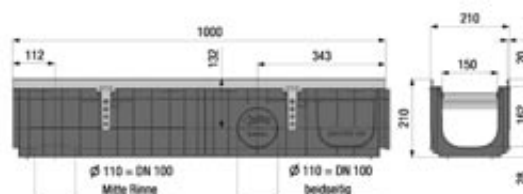
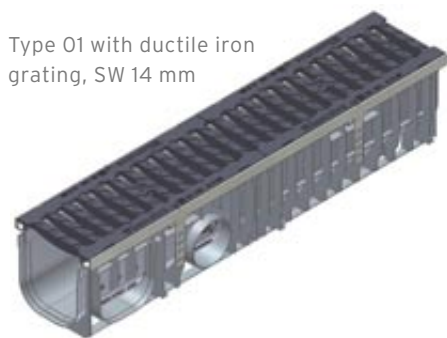
Type 01 with ductile iron grating, SW 14 mm



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating, SW 14 mm | 1000 | 210 | 210 | 230 | 631 | 15,9 | 40567 |

RECYFIX®SUPER KS 150 - Combi article, class D 400

Type 01 with ductile iron grating, SW 14 mm

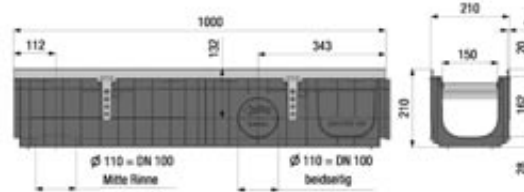


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating, SW 14 mm | 1000 | 210 | 210 | 230 | 629 | 15,9 | 40575 |

RECYFIX®SUPER KS 150

RECYFIX®SUPER KS 150 - Combi article, class E 600

Type 01 with GUGI-ductile iron mesh grating, MW 20x30

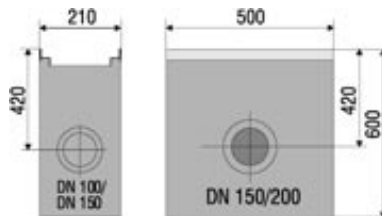


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² /m | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|--|--|--------------|-------------|
| Type 01 with GUGI-ductile iron mesh grating, MW 20x30 | 1000 | 210 | 210 | 230 | 716 | 20,7 | 40580 |
| Type 01 with ductile iron grating, SW 9 mm | 1000 | 210 | 210 | - | 557 | 18,9 | 40577 |

RECYFIX®SUPER KS 150 - Accessories



Trash box with galvanised bucket



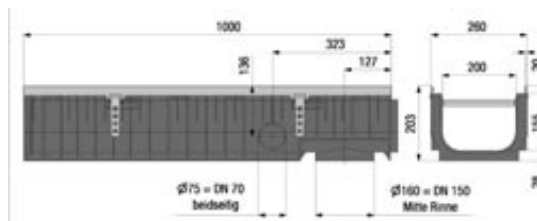
Foul air trap DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. galva- nised | Article No. stain- less steel |
|---|--------------|-------------|--------------|--------------|-----------------------------|----------------------------------|
| Trash box with galvanised bucket | 500 | 210 | 600 | 67,5 | 11052 | 11552 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 | - |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 | - |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 | - |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 | - |

RECYFIX®SUPER KS 200

RECYFIX®SUPER KS 200 - Combi article, class C 250

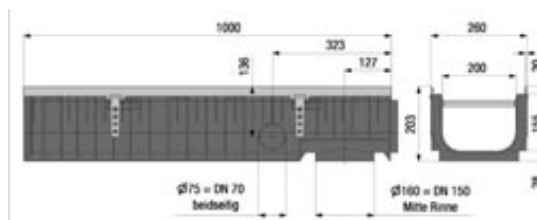
Type 010 with ductile iron grating, SW 14 mm



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with ductile iron grating, SW 14 mm | 1000 | 260 | 203 | - | 823 | 18,4 | 41367 |
| Type 020 with ductile iron grating, SW 14 mm | 1000 | 260 | 253 | - | 823 | 18,6 | 41368 |

RECYFIX®SUPER KS 200 - Combi article, class D 400

Type 010 with ductile iron grating, SW 14 mm

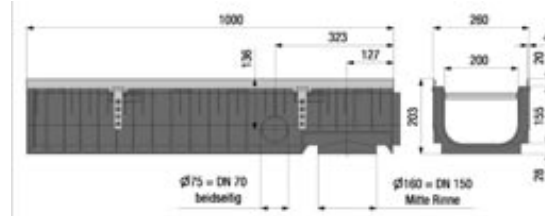


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with ductile iron grating, SW 14 mm | 1000 | 260 | 203 | 292 | 823 | 20,4 | 41375 |
| Type 020 with ductile iron grating, SW 14 mm | 1000 | 260 | 253 | 395 | 823 | 20,6 | 41376 |

RECYFIX®SUPER KS 200

RECYFIX®SUPER KS 200 - Combi article, class E 600

Type 010 with GUGI-ductile iron mesh grating, MW 20x30

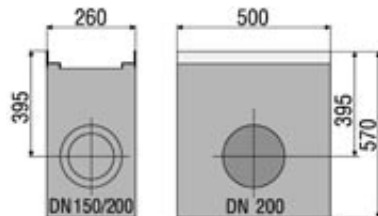


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with GUGI-ductile iron mesh grating, MW 20x30 | 1000 | 260 | 203 | - | 886 | 26,0 | 41380 |
| Type 020 with GUGI-ductile iron mesh grating, MW 20x30 | 1000 | 260 | 253 | - | 886 | 26,2 | 41381 |

RECYFIX®SUPER KS 200 - Accessories



Trash box with galvanised bucket



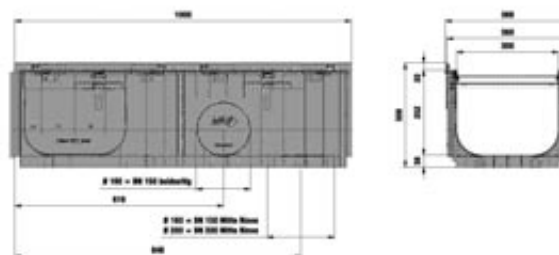
End cap for type 010, galvanised

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box with galvanised bucket | 500 | 260 | 570 | 75,5 | 12052 |
| Trash box with galvanised bucket | 500 | 260 | 570 | 75,5 | 12552 |
| End cap for type 010, galvanised | - | 260 | 320 | 0,3 | 41382 |
| End cap for type 010, galvanised, with horizontal UPVC outlet DN 100 | - | 260 | 320 | 0,6 | 41387 |
| End cap for type 010, stainless steel | - | 260 | 320 | 0,3 | 41782 |
| End cap for type 010, stainless steel, with horizontal UPVC outlet DN 100 | - | 260 | 320 | 0,6 | 41787 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

RECYFIX®SUPER KS 300

RECYFIX®SUPER KS 300 - Combi article, class D 400

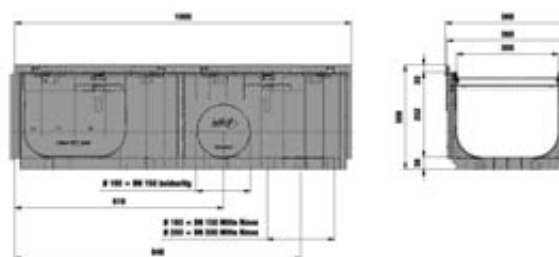
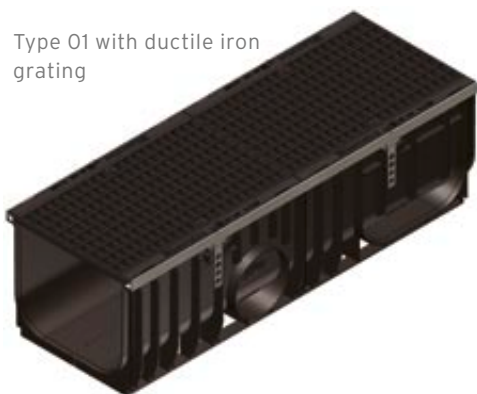
Type 01 with ductile iron grating



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|-----------------------------------|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating | 1000 | 360 | 308 | - | 1325 | 31,6 | 41875 |

RECYFIX®SUPER KS 300 - Combi article, class E 600

Type 01 with ductile iron grating



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|-----------------------------------|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating | 1000 | 360 | 308 | - | 1196 | 37,6 | 41880 |

RECYFIX®SUPER KS 300

RECYFIX®SUPER KS 300 - Accessories

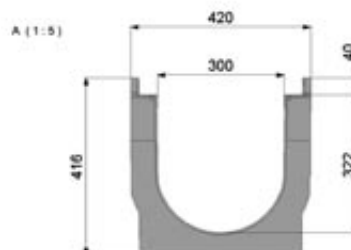
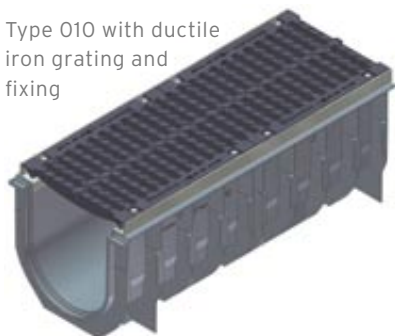
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

FASERFIX®SUPER KS**FASERFIX®BIG****FASERFIX®TRAFFIC****RECYRFIX®SUPER KS****RECYRFIX®PLUS X****RECYRFIX®HICAP****FASERFIX®POINT**

RECYFIX®SUPER 300

RECYFIX®SUPER 300 - Combi article, class C 250

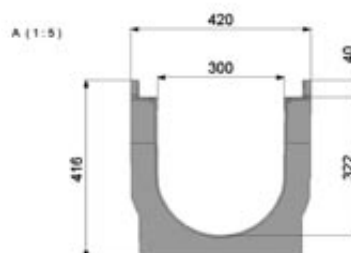
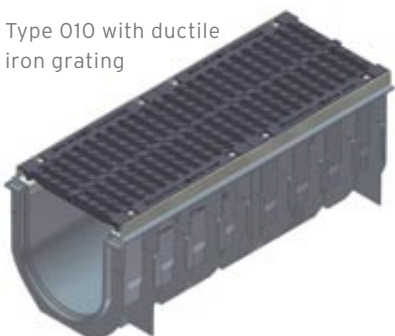
Type 010 with ductile iron grating and fixing



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with ductile iron grating and fixing | 1000 | 416 | 416 | 863 | - | 56,0 | 40970 |

RECYFIX®SUPER 300 - Combi article, class D 400

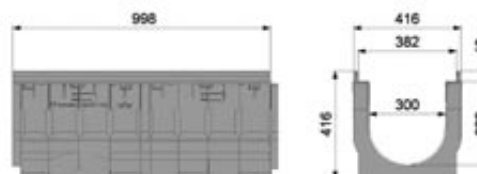
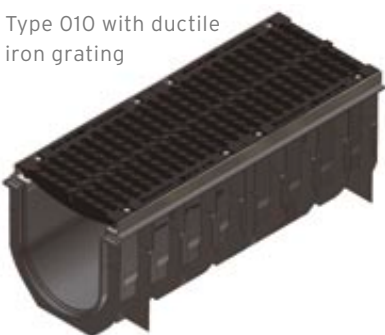
Type 010 with ductile iron grating



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|------------------------------------|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with ductile iron grating | 1000 | 416 | 416 | 863 | - | 48,2 | 40975 |

RECYFIX®SUPER 300 - Combi article, class E 600

Type 010 with ductile iron grating

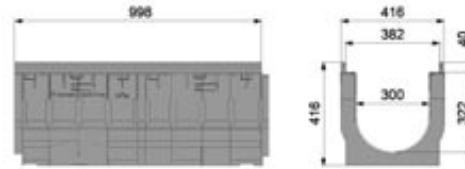


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|------------------------------------|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with ductile iron grating | 1000 | 416 | 416 | 863 | - | 63,8 | 40960 |

RECYFIX®SUPER 300

RECYFIX®SUPER 300 - Combi article, class F 900

Type 010 with ductile iron grating



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|------------------------------------|--------------|-------------|--------------|---|--|--------------|-------------|
| Type 010 with ductile iron grating | 1000 | 416 | 416 | 863 | - | 58,4 | 40980 |

RECYFIX®SUPER 300 - Accessories



Trash box, two parts,
without grating



Foul air trap DN 150



End cap type 010,
galvanised

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box, two parts, without grating | 510 | 390 | 850 | 183,5 | 4050 |
| Extension part | 510 | 390 | 400 | 82,0 | 4054 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| End cap type 010, galvanised | - | 420 | 420 | 2,8 | 40981 |
| End cap type 010, galvanised, with outlet | - | 420 | 420 | 3,2 | 40991 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

RECYFIX® PLUS X

STABLE DRAINAGE.

WITH A PROTECTIVE EDGE AND ATTRACTIVE DESIGN.



AT A GLANCE

- ✓ Loading category D 400, certified to EN 1433
- ✓ Internal width 100mm to 300mm
- ✓ Light and robust
- ✓ Easy and quick to install



RECYFIX®PLUS X

STABLE DRAINAGE.

WITH PROTECTIVE EDGE AND ATTRACTIVE DESIGN.

INNOVATIVE AND ENVIRONMENTALLY FRIENDLY

RECYFIX®PLUS X channels are made from PE-PP and are fully recyclable. Because they are light, RECYFIX®PLUS X channels are easy to transport and to install.

The system meets the most severe requirements in terms of robustness and functionality. RECYFIX®PLUS X channels have been developed for use in areas with higher traffic flows. The channels edges are protected by steel angle housing. RECYFIX®PLUS X provides you with a complete range including all the accessories you need.

RECYFIX®PLUS X channels were developed in partnership with a renowned recycled plastic research institute. Using computer-based simulations, very robust structures re-

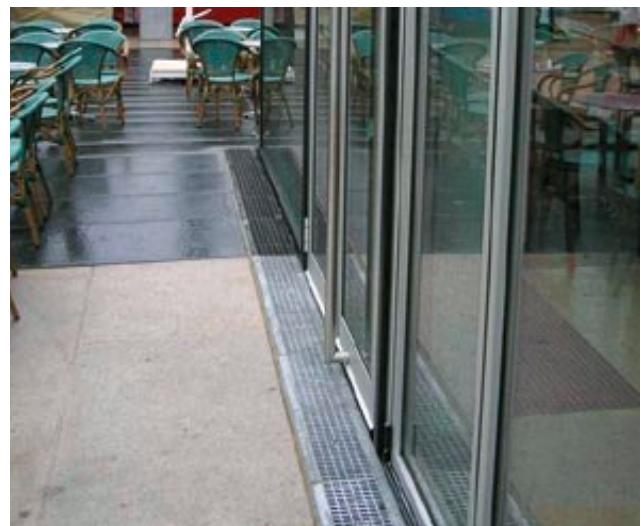
inforced by means of ribs were designed - they are much lighter than traditional channels made from materials such as rock and stone and are also very functional and robust.

RECYCLED PE-PP MATERIAL

RECYFIX®PLUS X channels are made from recycled PE-PP materials. What sets them apart from other channels is their high chemical resistance to freezing, to the salts that are used to de-ice roads and to UV rays. They are also environmentally neutral and impermeable.



Polygonal installation



Installation on terraces

REQUIREMENTS

The choice of a drainage system is determined by various criteria - i.e. constraints, be they technical, to do with transport or budget-related, which themselves are determined by what kind of environment the system is intended for. Whether the system is being installed in an area with paving stones, in a patio, in a public park, or in car parks, pedestrian zones, or in streets with vehicular traffic, the water-drainage systems used must satisfy all of the demands placed upon them, both by pedestrian and vehicular traffic. Surface water must be drained very effectively but must also be carried away quickly using reliable means.

SOLUTIONS

The channels in the RECYFIX®PLUS X range have galvanised steel angle housings, a channel body made of PE-PP and are certified according to EN 1433 for loadclass D 400. The PE-PP channels in the RECYFIX®PLUS X range are light but unbreakable and are supplied in nominal widths from 100mm up to 300mm. They are highly resistant against freezing and road salt resistant as well as being easy to install linearly on the construction site.

APPLICATIONS

The channels can be used in all areas with paving stones, for patio areas, in public parks, in pedestrian zones, and also in car parks and in industrial and trading estates, etc.



In areas with vehicular traffic, such as streets and car parks



In industrial settings

RECYFIX®PLUS X

STABLE DRAINAGE.

WITH A PROTECTIVE EDGE AND ATTRACTIVE DESIGN.

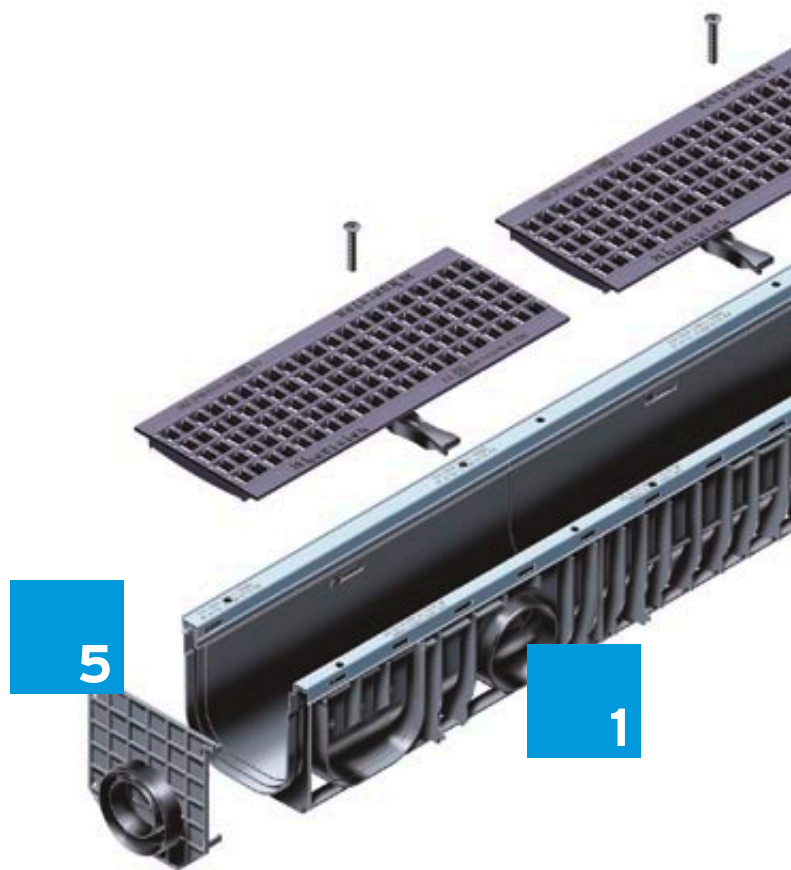
RECYFIX®PLUS X channels are certified according EN 1433 and can be installed in areas in which the following loading capacities can be expected:



**CATEGORY D 400,
LOAD CLASS 400 KN**

GENERAL INSTRUCTIONS FOR THE USE OF THE CHANNELS:

- The channels installation advices provided in the "Installation advices manual" are for information purposes only. Their provision does not mean that project engineers can dispense with efforts to find laying solutions suitable for sites and the specific constraints encountered on the ground.
- Correct flow directions must be complied with (see arrows on the outsides of channels).
- Surface paving must be 3 mm to 5 mm higher than the level of the channel top level.
- Expansion joints must be correctly positioned, in order to completely counteract horizontal expansion forces.
- Insert the gratings of the channels to ensure that the channels are stable before pouring second-stage concrete:
- Detailed installation advices can be downloaded from our website www.hauraton.com. These instructions are updated on a regular basis.



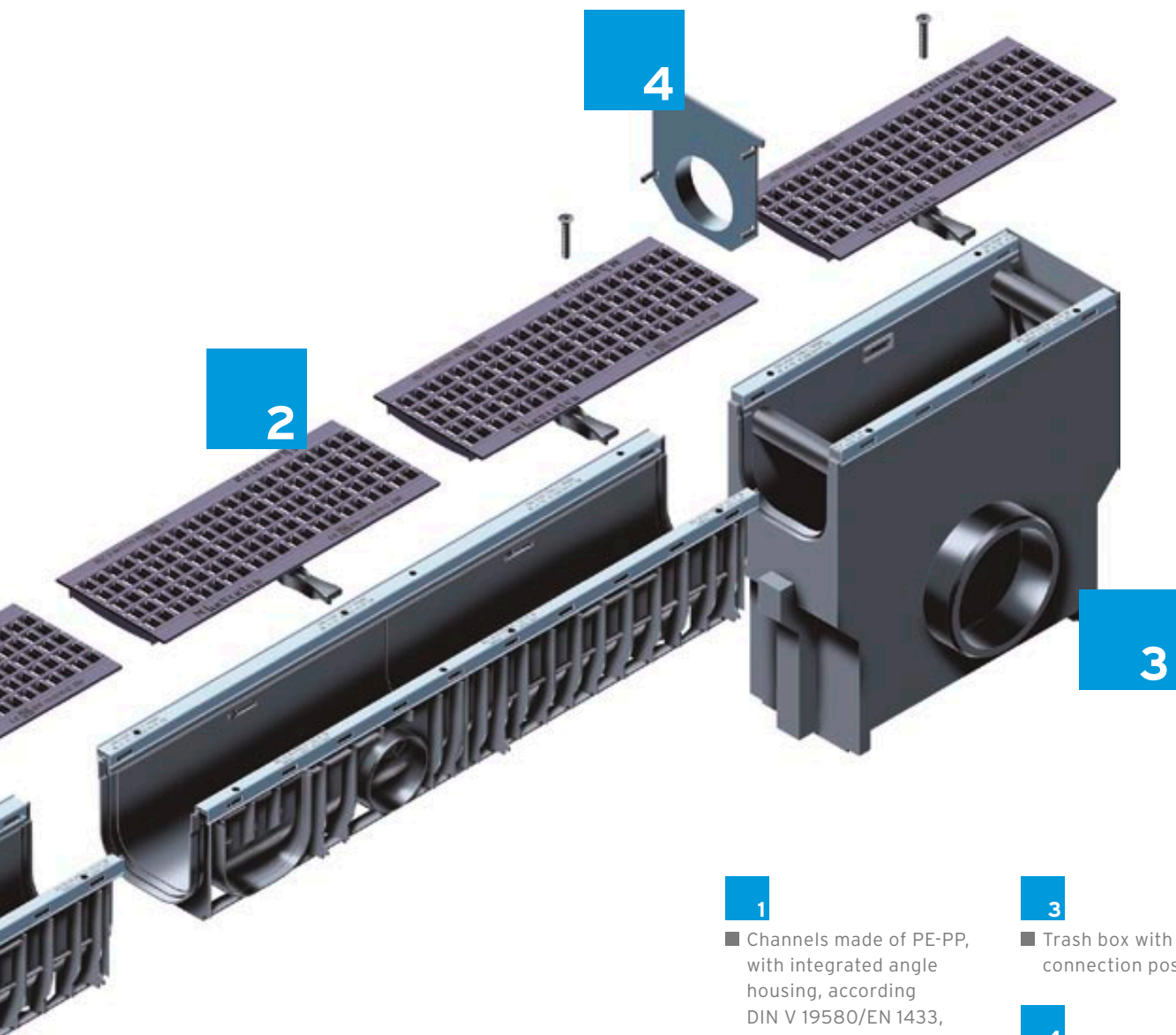
GRATING FOR RECYFIX®PLUS X CHANNELS

GUGI-Ductile iron mesh gratings*

Ductile iron gratings*

| Load class | GUGI-Ductile iron mesh gratings* | Ductile iron gratings* |
|------------|----------------------------------|------------------------|
| A 15 | | |
| B 125 | | |
| C 250 | | |
| D 400 | 100, 150, 200, 300 | 300 |

* The measurements listed are internal widths.



1

■ Channels made of PE-PP, with integrated angle housing, according DIN V 19580/EN 1433, CE-conform, with groove and tongue connection for exact installation

2

■ Numerous grating options, for example GUGI-Ductile iron mesh gratings

3

■ Trash box with pipe-connection possibilities

4

■ End cap with outlet

5

■ End cap

NORM EN 1433

All RECYRFIX®PLUS X channels comply with European standard EN 1433 by fulfilling its requirements and they all carry the CE quality mark.

A FULL RANGE

RECYRFIX®PLUS X channels are available in different heights and widths. They can be connected to other accessories in the channels bottom, the side-walls or from the front side. You have a choice between several ductile iron gratings depending on the type of paving used and the load class. Also available in the range are trash boxes with mud bucket, end caps and end caps with vertical outlet.



Parking

FASERFIX®SUPER KS

FASERFIX®BIG

FASERFIX®TRAFFIC

RECYRFIX®SUPER KS

RECYRFIX®PLUS X

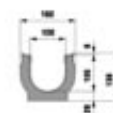
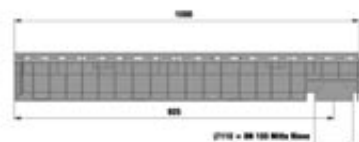
RECYRFIX®HICAP

FASERFIX®POINT

RECYFIX®PLUS X 100

RECYFIX®PLUS X 100 - combi article, class D 400

Type 01 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m | 1000 | 160 | 139 | 93 | 440 | 10,5 | 42070 |
| Type 010 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m | 1000 | 160 | 187 | 142 | 440 | 11,2 | 42075 |
| Type 0105 with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m | 500 | 160 | 139 | 93 | 440 | 5,2 | 42077 |
| Type 01005 with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m | 500 | 160 | 187 | 142 | 440 | 5,6 | 42078 |

RECYFIX®PLUS X 100 - Accessories



Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m



Foul air trap DN 100, outside



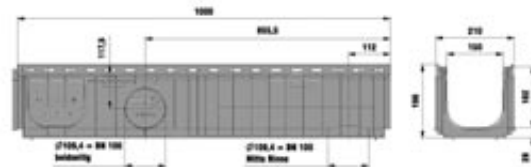
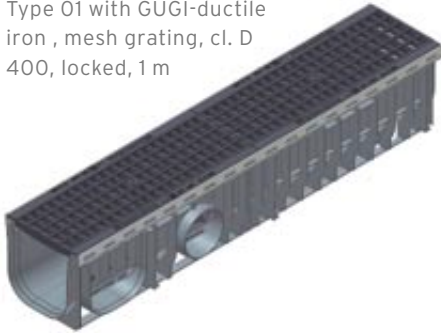
Foul air trap DN 100, inside

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m | 500 | 158 | 424 | 7,3 | 42079 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |

RECYFIX®PLUS X 150

RECYFIX®PLUS X 150 - combi article, class D 400

Type 01 with GUGI-ductile iron , mesh grating, cl. D 400, locked, 1 m



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with GUGI-ductile iron , mesh grating, cl. D 400, locked, 1 m | 1000 | 210 | 196 | 225 | 699 | 15,9 | 42170 |

RECYFIX®PLUS X 150 - Accessories



Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m



Foul air trap DN 100, outside



Foul air trap DN 150



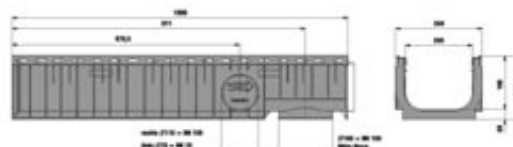
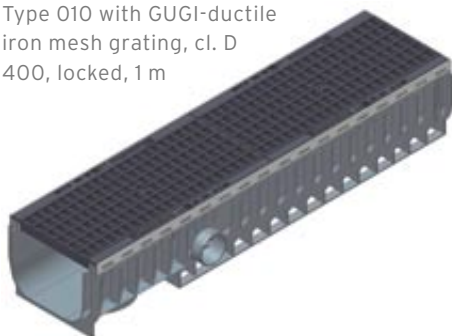
Foul air trap DN 100, inside

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m | 500 | 298 | 504 | 19,2 | 42179 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| End cap galvanised for RECYFIX 150 trash box | - | - | - | 0,3 | 40159 |
| End cap combined made of PE-PP with outlet DN 70/100, Type 01 | - | 210 | 202 | 0,1 | 40191 |

RECYFIX®PLUS X 200

RECYFIX®PLUS X 200 - combi article, class D 400

Type 010 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 010 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m | 1000 | 260 | 188 | 290 | 878 | 20,9 | 42275 |
| Type 020 with GUGI-ductile iron mesh grating, cl. D 400, locked, 1 m | 160 | 1000 | 238 | 366 | 878 | 21,0 | 42280 |

RECYFIX®PLUS X 200 - Accessories



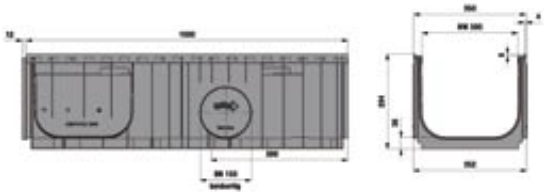
Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|-------------|
| Trash box with GUGI-ductile iron mesh grating, cl. D 400, locked, 0,5 m | 500 | 344 | 738 | 33,7 | 42253 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| End cap galvanised for RECYFIX 200 trash box | - | - | - | 0,6 | 40659 |
| End cap combined made of PE-PP with outlet DN 70, Type 010 | - | 258 | 185 | 0,2 | 40692 |

RECYFIX®PLUS X 300

RECYFIX®PLUS X 300 - combi article, class D 400

Type 01 with ductile
iron grating, cl. D 400
and locking device



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|-------------|
| Type 01 with ductile iron grating, cl. D 400 and locking device | 1000 | 350 | 294 | 730 | 1256 | 32,0 | 42375 |

CIVILS

LANDSCAPING

AQUA

SPORT

RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

 **hauraton**
IT'S RUNNING WELL



RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.
DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

SPECIAL STANDARDS IN TIMES OF CLIMATE CHANGE

Due to the climate change the German Meteorological Service (DWD) has redefines heavy precipitations to be expected. Torrential rain lasting more than 5 minutes, which statistically is to be expected once in 5 years, must now be assessed to have 10 % more content than before. Large areas with a high traffic volume therefore require a particularly effective drainage solution.

At the same time the channel run must offer a large backwater reserve to meet community standards following measures for flood safety. In barrier-free urban and residential areas steps and kerbs, which would serve as a barrier for flood zones, are omitted. For these applications the drainage system must provide sufficient safety.



THE NEW SOLUTION: RECYFIX®HICAP®

RECYFIX HICAP has been developed for special drainage functions. The channel system is used for draining large areas and simultaneously serves as a retention space. The RECYFIX HICAP drainage system holds large volumes of surface water, guides it over large distances and at one point directs it to the main channel. The system offers very high hydraulic capacity for increasing drainage averages. This creates a large backwater reserve. At the same time it offers the option to restrict the water output to the main water channel and to slowly release the collected water into the sewage network.

ADVANTAGES

for planners

- ☐ Drainage and retention in one assembly
- ☐ Large selection of nominal sizes from 100 to 680 mm
- ☐ suitable for all load classes and all popular pavements
- ☐ fewer trash boxes and outlets
- ☐ allows projects to be designed with a uniform look

for contractors

- ☐ Quick and easy installation
- ☐ break-proof components
- ☐ no separate covers
- ☐ less sewer connection work

for construction companies

- ☐ Safety through large hydraulic capacity
- ☐ Easy to service
- ☐ Continuously uniform look



GRATINGS MADE OF STURDY SPHEROID DUCTILE IRON

The integrated gratings are made of high-quality spheroid ductile iron GGG-50. Different grating designs are available for different application areas. In roadways and pedestrian areas cross- or lengthwise webs are used. In industrial areas the "open slot" option with a particularly large intake-cross section can be used. The ductile iron GGG-50 surface driven on is extremely sturdy and unbreakable. It is designed for particularly high strain caused e.g. by heavy goods vehicles or airplanes.

The material spheroid ductile iron GGG-50 features 23 times more tensile strength and 9 times more compressive strength than polymer concrete. In regard to load and resistance to wear these physical characteristics clearly speak in favour of the RECYFIX HICAP channels.



PE-PP CHANNEL BODIES

The bodies of the RECYFIX HICAP channels are made of eco-friendly PE-PP recycled plastic. They are very lightweight and due to their low weight easy to install. The elements can be installed without installation aids.



They are non-breakable and easily connected with groove and tongue joints. Special connectors ensure the accurately fit transition between differently sized channels.

AT A GLANCE:

- ✓ Drainage and retention in one assembly
- ✓ consistently optic
- ✓ easy installation
- ✓ for highest loading capacities up to F 900

COMPRESSIVE STRENGTH

Ratio 9:1

-  Polymere concrete
-  Spheroid ductile iron GGG-50



90 N/mm²



800 N/mm²

TENSILE STRENGTH

Ratio 23:1



22 N/mm²



500 N/mm²

RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

RECYFIX HICAP channels have been tested to comply with DIN EN 1433 and are suitable for installation in loading classes A 15 to F 900



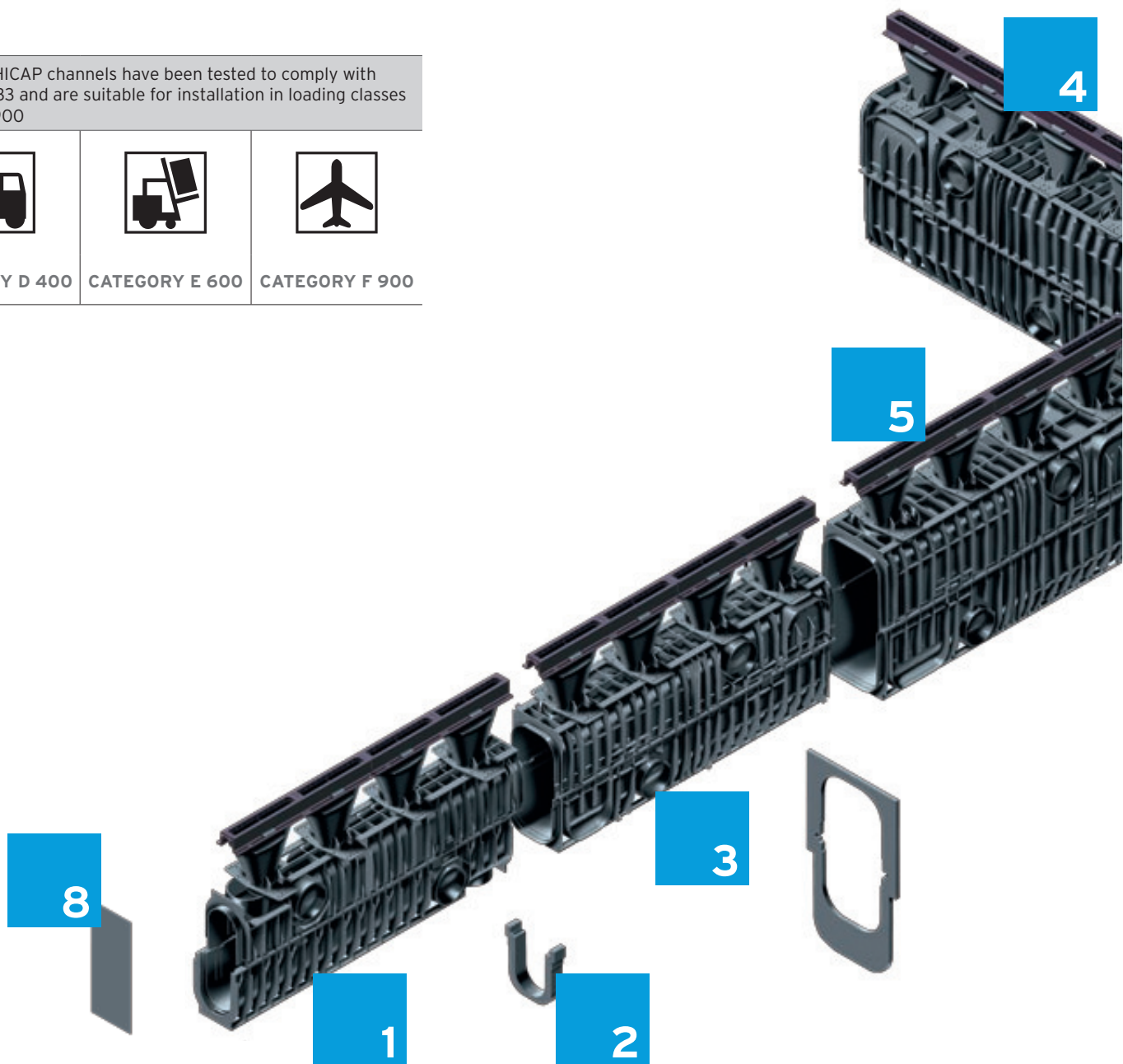
CATEGORY D 400



CATEGORY E 600



CATEGORY F 900



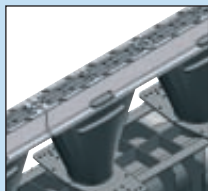
TYPES OF SLOTS

RECYFIX®HICAP® F

Inlet adaptors made of PE-PP



Traffic



Pedestrian



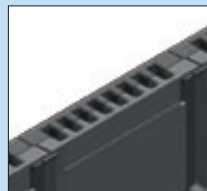
Industrial

RECYFIX®HICAP® G

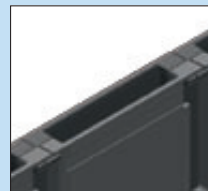
Inlet adaptors made ductile iron GGG-50



Traffic



Pedestrian *



Industrial *

* available from 2010



1

■ RECYFIX HICAP Channel 100 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

2

■ With the connecting plate the next nominal size is connected

3

■ RECYFIX HICAP Channel 150 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

4

■ T-connection for connection of leaks

5

■ RECYFIX HICAP Channel 200 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

6

■ RECYFIX HICAP Channel 300 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

7

■ RECYFIX HICAP Channel 680 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

8

■ End cap 100

9

■ End cap 680 with pipe connection possibility

10

■ Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multi part constructions are possible.

RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

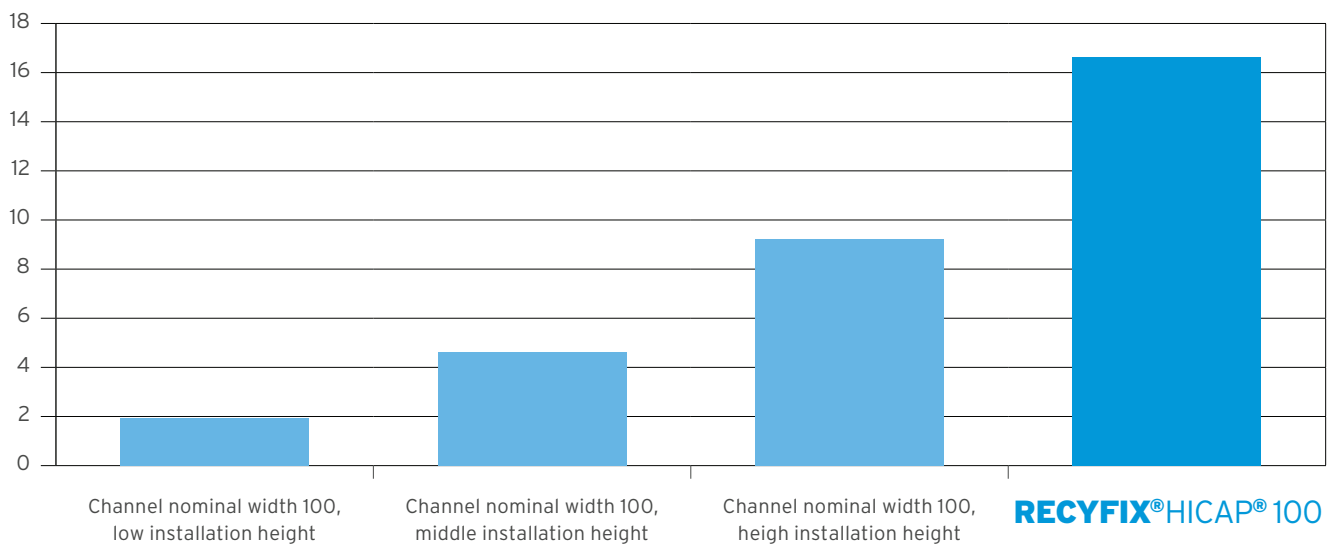
DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

DRAINING LARGE STRETCHES WITH ONLY ONE CHANNEL RUN

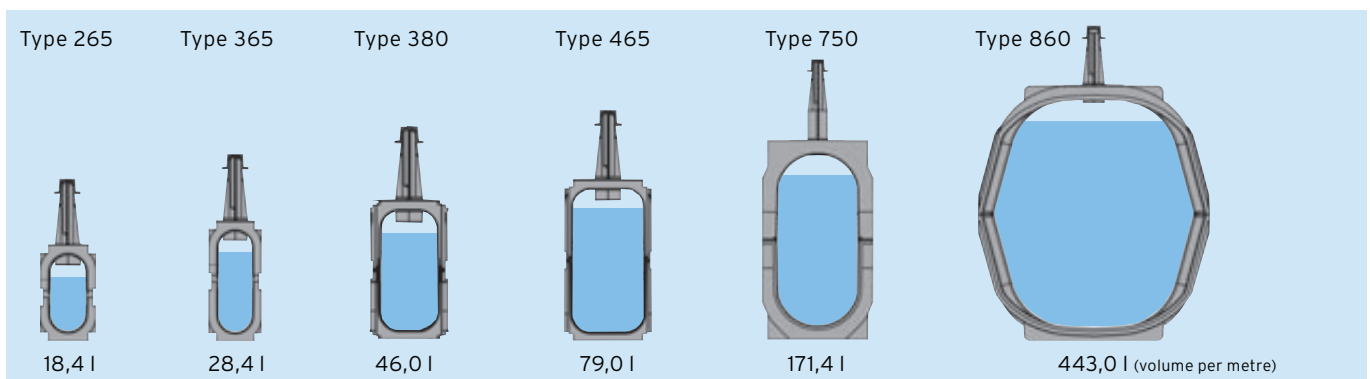
RECYFIX HICAP is so effective because large stretches can be implemented with one single channel run. Starting with a nominal width of 100 mm it offers the option to expand up to 680 mm. With this the installation height increases as well and a channel is created underground which cannot be seen above ground. What's seen there is a drain line with a consistently narrow cover

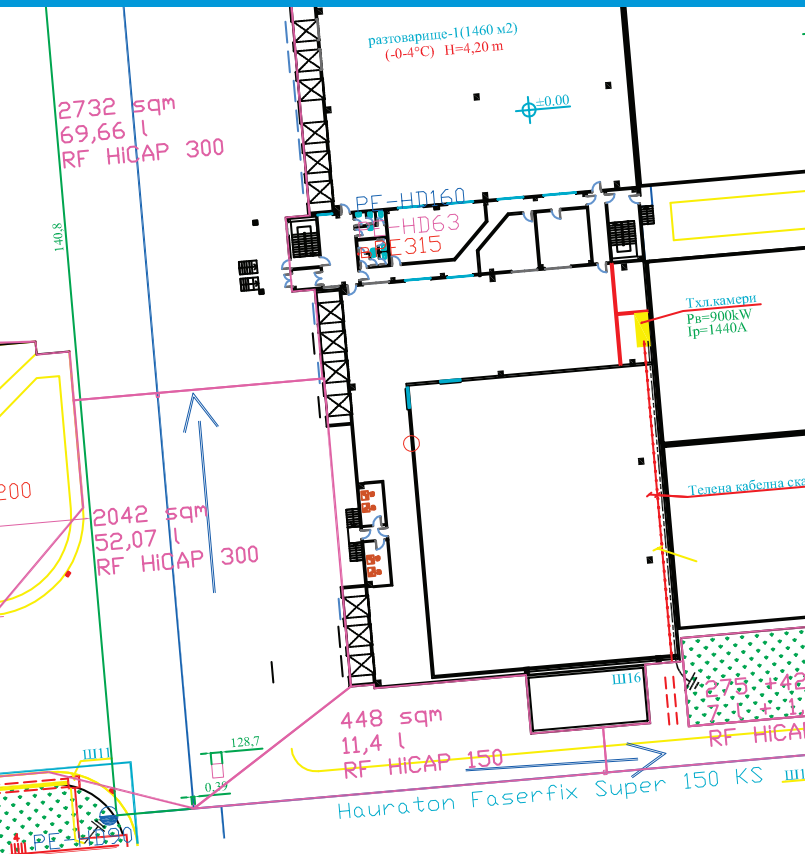
A trash box which can be installed at any location of the channel run is used to connect to the sewer system or as a connection to other branches of the drainage system. As a two-part component the trash box can also be used as a pump pit.

COMPARISON FLOW CAPACITY l/s



RECYFIX®HICAP®: CHANNELS WITH BACKWATER VOLUME





A PRACTICAL EXAMPLE:

The following practical example proves the large drainage- and retention capacity of RECYFIX HICAP channels:

Logistics Centre Plovdiv, Bulgaria

Channel length: 356 m, divided:

- 66 m RECYFIX HICAP 200 Type 465/300, open slot
- 136 m RECYFIX HICAP 300 Type 750/300, open slot
- 154 m RECYFIX HICAP 680 Type 860/300, open slot

Total drainage area: 10.730 m²

Runoff coefficient (specified by the planner): 0,85

Rain yield factor (specified by the planner): 300,0 l/s ha

→ **Discharge capacity at end of channel run: 252 l/s**

One single channel run drains a surface of more than 10,000 m², directs the entire water amount over more than 356 m and at the end puts it out into the public sewer at one single point, at a rate of 252 l/s.



RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

SAMPLE CALCULATION:

RECYFIX®HICAP® F, Traffic slot

The following sample calculation points out the hydraulic advantage of the RECYFIX HICAP channel:

Flow capacity of a traffic slot grating from the adjoining test result, determined at the Technical University in Prague: **4,0 l/s per metre**

Common Precipitation from practice: **150 l/s per hectare**

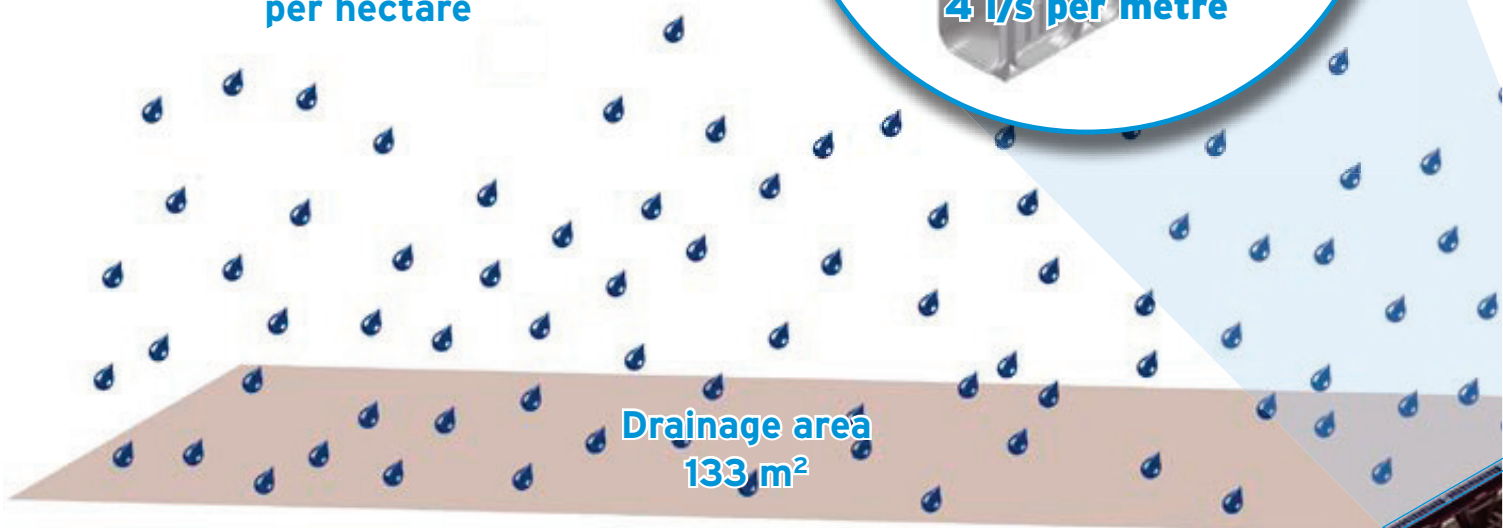
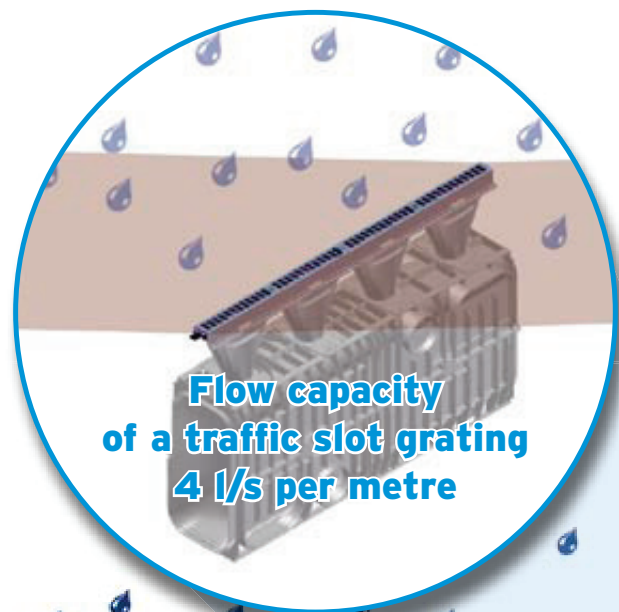
$$150 \text{ l/s ha} = 0,015 \text{ l/s m}^2$$

$$\frac{4,0 \text{ l/s m}}{0,015 \text{ l/s m}^2} = 266,67 \text{ m}$$

Precipitation 150 l/s
per hectare

Flow capacity
of a traffic slot grating
4 l/s per metre

Drainage area
133 m²



Intake-cross section and flow capacity of RECYFIX®HICAP® F



| | Grating | Intake-cross section grating in l/s* | Flow capacity channel body in l/s |
|--------|------------|---|--------------------------------------|
| NW 100 | Pedestrian | 3,80 | 16,5 |
| NW 100 | Traffic | 4,00 | 15,9 |
| NW 100 | Industrial | 3,60 | 16,5 |
| NW 150 | Pedestrian | 3,80 | 32,4 |
| NW 150 | Traffic | 4,00 | 31,8 |
| NW 150 | Industrial | 3,60 | 32,4 |
| NW 200 | Pedestrian | 3,80 | 68,4 |
| NW 200 | Traffic | 4,00 | 69,1 |
| NW 200 | Industrial | 3,60 | 68,4 |
| NW 300 | Pedestrian | 3,80 | 202,5 |
| NW 300 | Traffic | 4,00 | 205,0 |
| NW 300 | Industrial | 3,60 | 198,0 |
| NW 680 | Pedestrian | 3,80 | 491,6 |
| NW 680 | Traffic | 4,00 | 480,0 |
| NW 680 | Industrial | 3,60 | 484,0 |

* measured during excess backwater testing at 10 mm excess backwater

RESULT OF EXAMPLE:

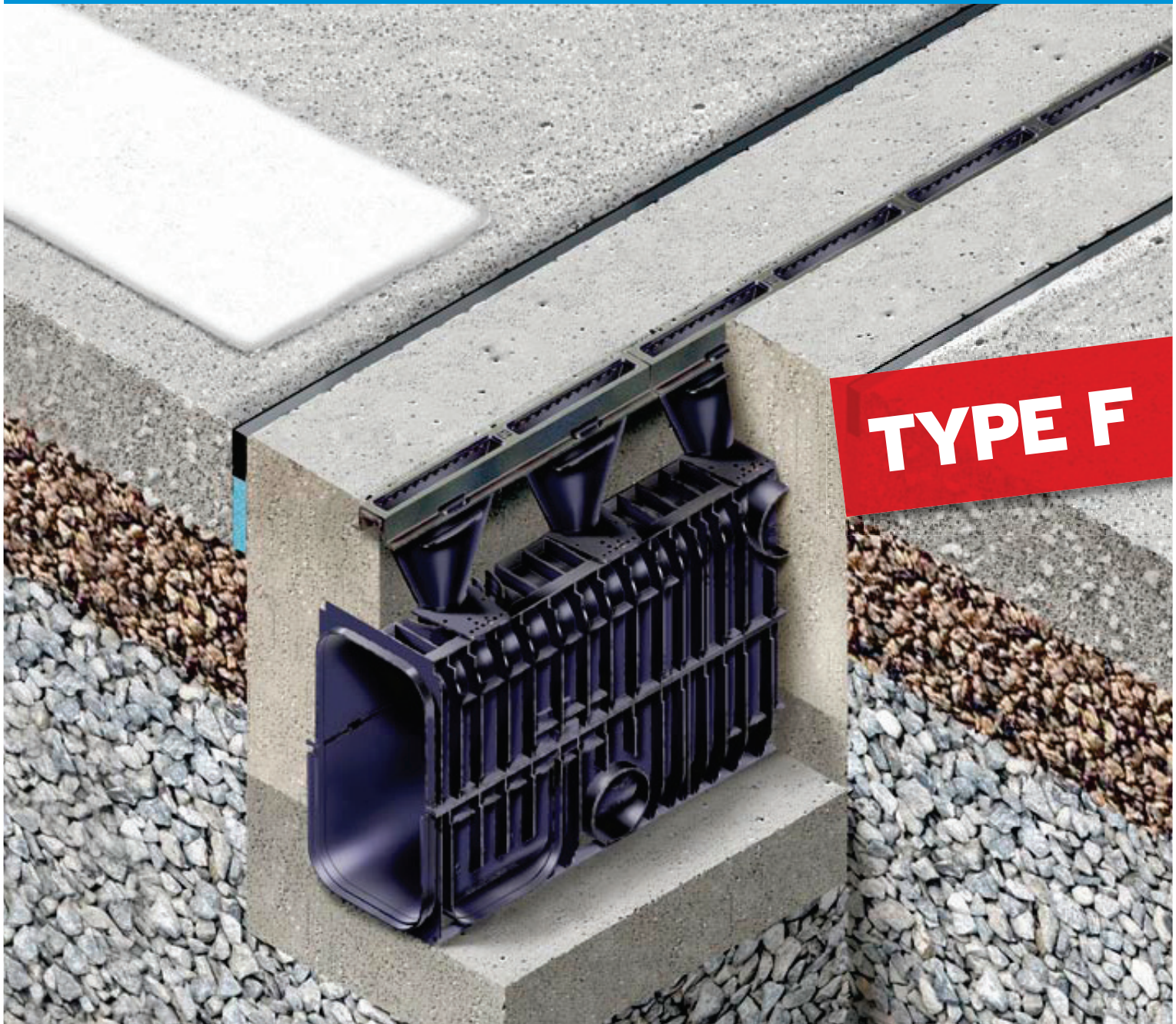
1 m RECYFIX HICAP gutter with cross
ridge cover drains an area of 266.67 m²
at a precipitation of 150 l/s and hectare.

Drainage area
133 m²

RECYFIX® HICAP® F

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.



RECYFIX® HICAP® F

- for installation in concrete and asphalt areas
- direct driven surface made of ductile iron GGG-50
- Inlet adaptor and channel body made of PE-PP

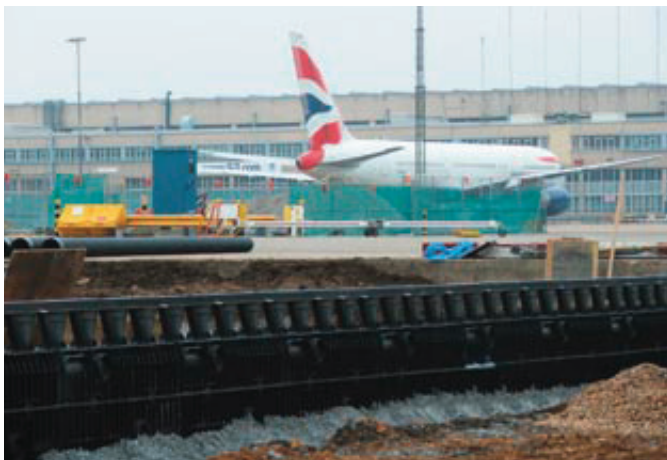
RECYFIX®HICAP® F

EFFECTIVELY DRAINED - BUILT MODULAR.
DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

REPORT FROM THE FIELD:

RECYFIX®HICAP® F CHANNELS FOR HEATHROW AIRPORT, LONDON

With 67 million travellers annually, Heathrow Airport in London is Europe's busiest airport. Worldwide it takes third place behind Atlanta and Chicago. This important hub in international air traffic is operated by BAA, British Airports Authority, the largest airport operator worldwide. 75 % of the British Airways fleet is based at Heathrow Airport.



At the southern section of the airport the British Airways service park was expanded. The construction site abutted right on the runway and taxiway. The demands on the new service site were immense: here airplanes of all types and sizes pass - including the Airbus A380, which was also a

main reason for the reconstruction. The aircraft tugs alone weight 80 tons and, just as the airplanes, drive and turn on the traffic areas. The demands on the drainage systems are accordingly high.

PROJECT PROGRESS

In 1999 BAA was already supplied with FASERFIX SUPER channels for the Gatwick airport and installed in the British Airways hangars and Concorde maintenance hangars. One year later came the delivery of FASERFIX SUPER KS 100 channels for London City Airport.

The assigned engineering office was very satisfied with the quality and service. In 2003 BAA broached the topic of installation and handling of drainage systems. The main topic of the discussions was the extreme weight of the products and the associated high employment of machines during installation.

On multiple occasions HAURATON contacted various departments of BAA and presented the advantages of RECYFIX products (lightweight, easy handling, meets British "Health and Safety Regulations" = One-man-lift = max. 25 kg). Drainage channels from this line were presented in various meetings and BAA decided across the board to work with HAURATON in the area of RECYFIX.



RECYFIX®HICAP® F - ECO-FRIENDLY AND 'EASY TO HANDLE'

Another key criterion for BAA was recycling. Airport planning and operation are subject to stringent environmental requirements. Products made of recycled plastic are therefore especially suited.

Suppliers routinely need to present BAA with product innovations which offer cost savings in installation and maintenance. In 2006 the time came for HAURATON to present the new line RECYFIX HICAP. The feedback was very positive, with BAA immediately recognising the resulting advantage in installation and maintenance, and the installation at Heathrow was decided.

INSTALLED

- 380 m RECYFIX HICAP F 300
- 100 m RECYFIX HICAP F 200
- 100 m RECYFIX HICAP F 150



Lightweight elements, installed by one single worker.

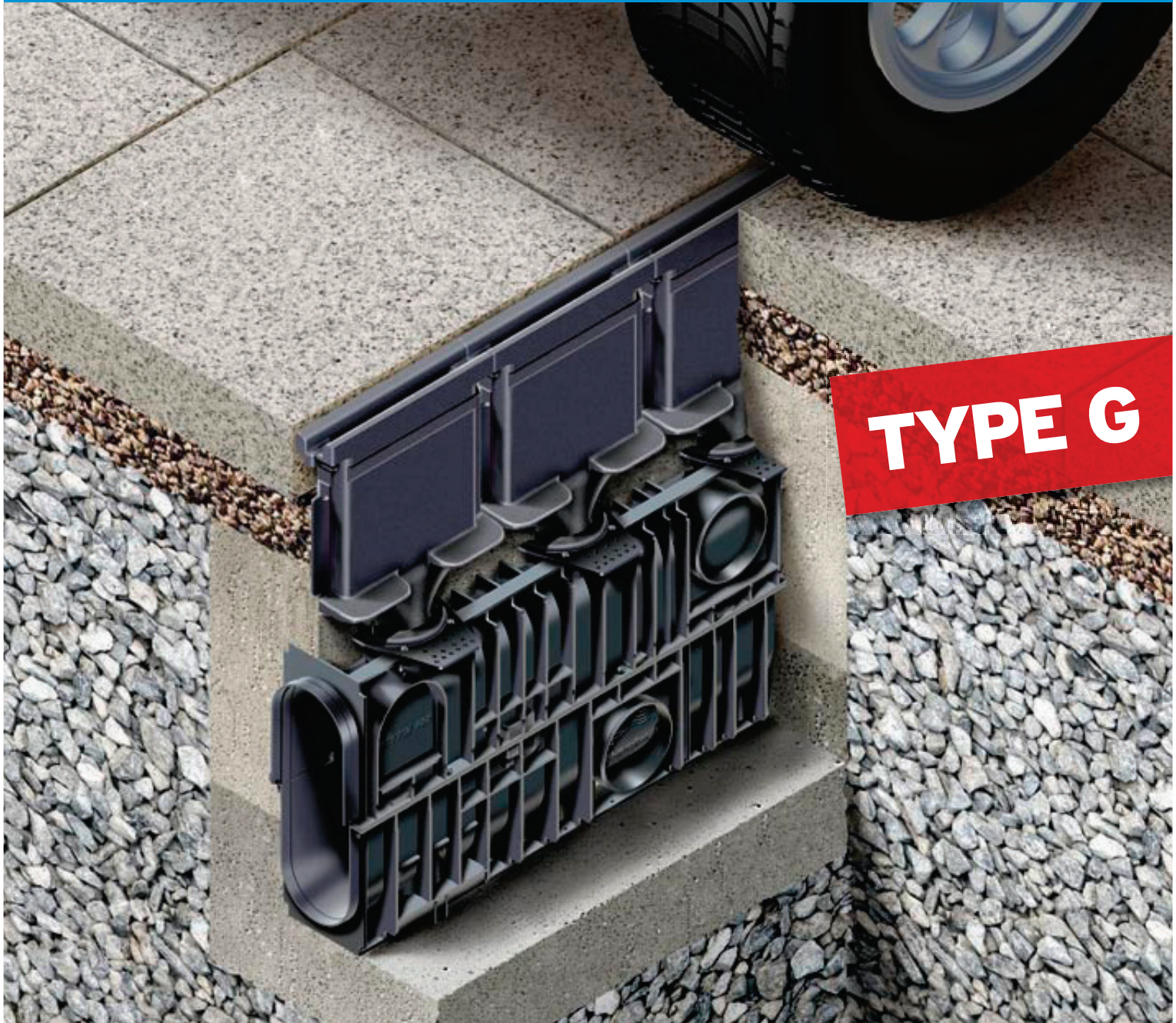
OTHER EXAMPLES OF RECYFIX®HICAP® F



RECYFIX® HICAP® G

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.



RECYFIX® HICAP® G

- for direct installation of pavement, flagging and asphalt
- Slotted channel made from ductile iron GGG-50
- Channel body made from PE-PP

RECYFIX®HICAP® G

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

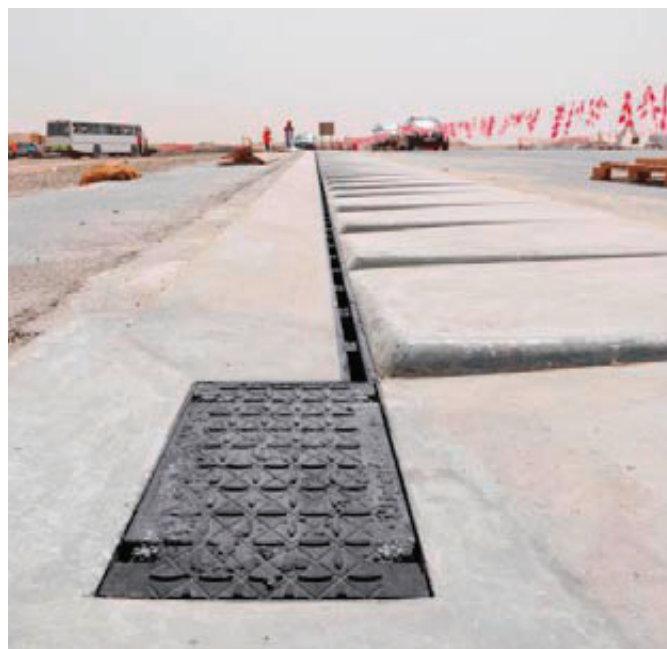
REPORT FROM THE FIELD:

RECYFIX®HICAP® G

20 KM DRAINAGE CHANNELS FOR NEW FORMULA 1 TRACK, ABU DHABI

LARGEST JOB TO DATE IN THE COMPANY'S HISTORY

With more than 20 km of drainage channels it is the largest job in the HAURATON history. The latest channel system, the RECYFIX HICAP G, convinces HAURATON customers in the United Arab Emirates. The drainage system is innovative and the first system with a PE-PP channel body with a slotted cover made of heavy duty ductile iron, offering permanent safety for extreme loads.



RECYFIX®HICAP® G: THE FIRST DUCTILE IRON SLOTTED CHANNEL

The demanding race track is being built on a 170 hectare site and will be 5.55 kilometres long. The new channel system was developed especially for the special requirements of Formula 1: RECYFIX HICAP G. The advantages of this first ductile iron slotted channel with a PE-PP channel body were the key criteria for the contract being awarded. The drainage channels withstand the highest dynamic strains and are safe and reliable. At the same time they must also withstand the extreme suction effect generated by the high speeds of the bolides. The RECYFIX HICAP G used on the track not only meets the safety requirements but with their superior hydraulic capacity they also fulfil the functions of a sewer along the track. The channels take on surface water, carry it over long stretches and feed it into the main water channel at a single point.



Channel installation at the new Formula 1 track, Yas Marina Circuit, Abu Dhabi

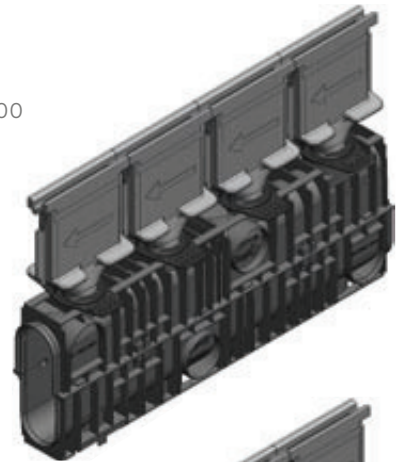
ADVANTAGES: SLOT ATTACHMENT MADE OF SPHEROIDAL DUCTILE IRON: SUPER STURDY AND NONCORROSIVE

RECYFIX HICAP G is super sturdy and is used in areas with extreme loads. What's revolutionary is the use of the ductile iron material. Spheroid ductile iron GGG-50 combines the properties stability (slotted channels made of steel easily deform with the use of heavy pavements) and durability (galvanised steel can easily corrode in moist soils, losing the zinc protector, stainless steel is significantly more expensive). With spheroid ductile iron at the surface and the dual hydraulic performance underground the product offers a new dimension of safety.

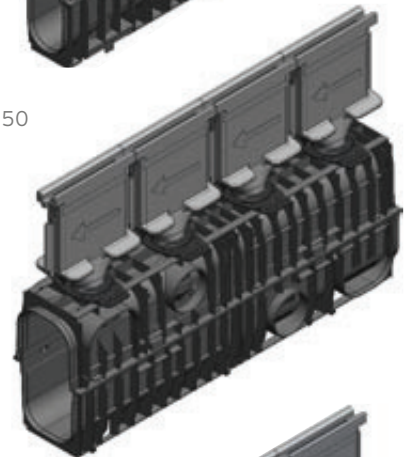
VISUALLY DISCRETE AND EXTREMELY DURABLE

The "virtually invisible" channels are especially suited for the design of appealing sites and architecturally challenging areas where large-scale paving stone or natural stone pavements are oftentimes used: dynamic strains from traffic put great force on the upper edges of the channels. That's where the ductile iron attachment with integrated intake adapter offers especially great resistance against the emerging forces and prevents damage.

■ RECYFIX HICAP G 100



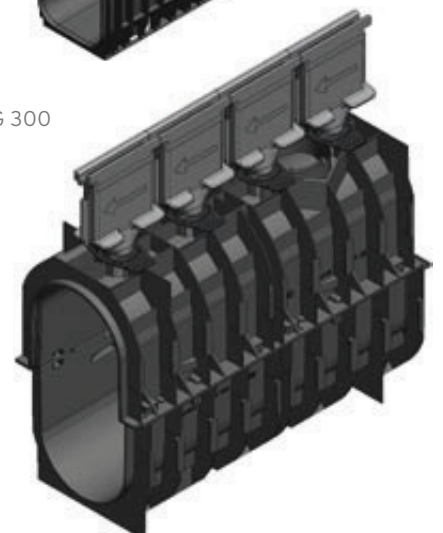
■ RECYFIX HICAP G 150



■ RECYFIX HICAP G 200



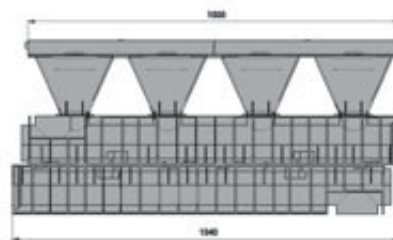
■ RECYFIX HICAP G 300



RECYFIX®HICAP® F

RECYFIX®HICAP®F 100 Type 265, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

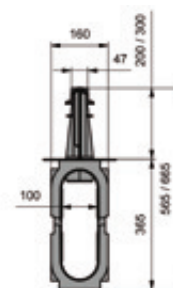
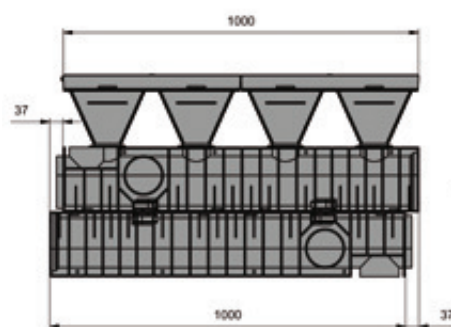
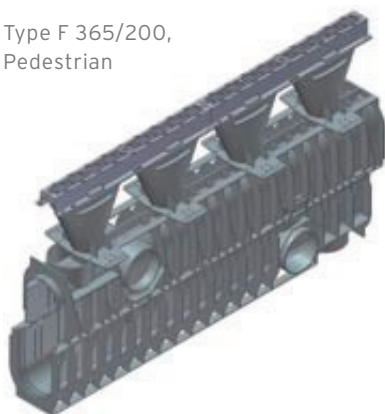
Type F 265/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 265/200, Pedestrian | 1000 | 160 | 465 | 184 | 154 | 10,8 | 13000 |
| Type F 265/200, Traffic | 1000 | 160 | 465 | 184 | 172 | 10,8 | 13025 |
| Type F 265/200, Industrial | 1000 | 160 | 465 | 184 | 248 | 10,4 | 13035 |
| Type F 265/300, Pedestrian | 1000 | 160 | 565 | 184 | 154 | 11,1 | 13065 |
| Type F 265/300, Traffic | 1000 | 160 | 565 | 184 | 172 | 11,1 | 13075 |
| Type F 265/300, Industrial | 1000 | 160 | 565 | 184 | 248 | 10,8 | 13085 |

RECYFIX®HICAP®F 100 Type 365, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

Type F 365/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 365/200, Pedestrian | 1000 | 160 | 565 | 284 | 154 | 13,2 | 13010 |
| Type F 365/200, Traffic | 1000 | 160 | 565 | 284 | 172 | 13,1 | 13020 |
| Type F 365/200, Industrial | 1000 | 160 | 565 | 284 | 248 | 12,6 | 13030 |
| Type F 365/300, Pedestrian | 1000 | 160 | 665 | 284 | 154 | 13,4 | 13060 |
| Type F 365/300, Traffic | 1000 | 160 | 665 | 284 | 172 | 13,3 | 13070 |
| Type F 365/300, Industrial | 1000 | 160 | 665 | 284 | 248 | 12,8 | 13080 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



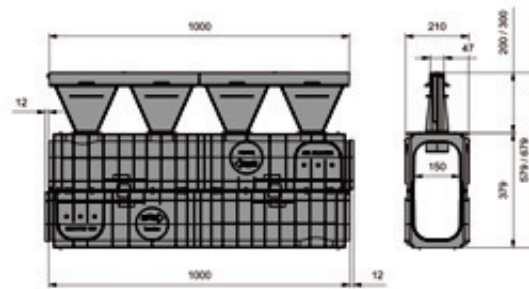
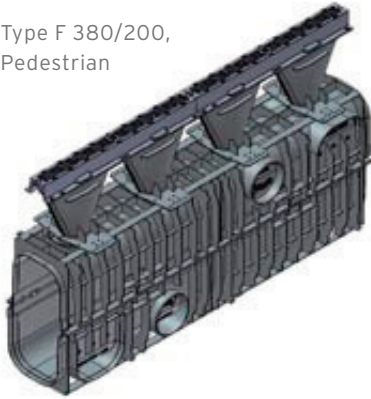
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® F

RECYFIX®HICAP®F 150 Type 380, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

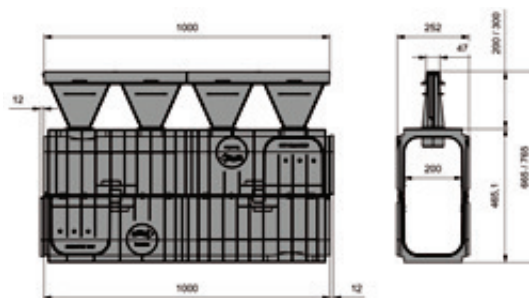
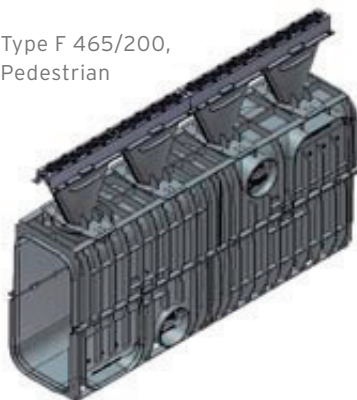
Type F 380/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 380/200, Pedestrian | 1000 | 210 | 580 | 460 | 154 | 12,5 | 13210 |
| Type F 380/200, Traffic | 1000 | 210 | 580 | 460 | 172 | 12,4 | 13220 |
| Type F 380/200, Industrial | 1000 | 210 | 580 | 460 | 248 | 11,9 | 13230 |
| Type F 380/300, Pedestrian | 1000 | 210 | 680 | 460 | 154 | 12,7 | 13260 |
| Type F 380/300, Traffic | 1000 | 210 | 680 | 460 | 172 | 12,6 | 13270 |
| Type F 380/300, Industrial | 1000 | 210 | 680 | 460 | 248 | 12,1 | 13280 |

RECYFIX®HICAP®F 200 Type 465, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

Type F 465/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 465/200, Pedestrian | 1000 | 252 | 665 | 790 | 154 | 14,0 | 13410 |
| Type F 465/200, Traffic | 1000 | 252 | 665 | 790 | 172 | 13,9 | 13420 |
| Type F 465/200, Industrial | 1000 | 252 | 665 | 790 | 248 | 13,4 | 13430 |
| Type F 465/300, Pedestrian | 1000 | 252 | 765 | 790 | 154 | 14,2 | 13460 |
| Type F 465/300, Traffic | 1000 | 252 | 765 | 790 | 172 | 14,1 | 13470 |
| Type F 465/300, Industrial | 1000 | 252 | 765 | 790 | 248 | 13,6 | 13480 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



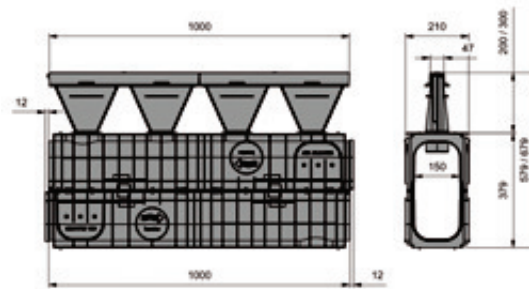
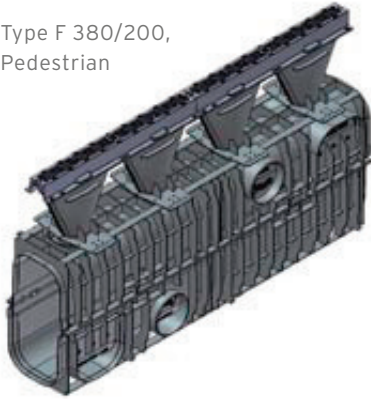
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® F

RECYFIX®HICAP®F 150 Type 380, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

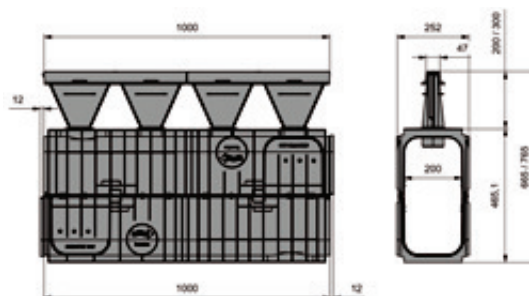
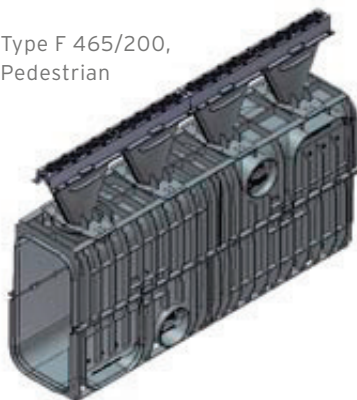
Type F 380/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 380/200, Pedestrian | 1000 | 210 | 580 | 460 | 154 | 12,5 | 13210 |
| Type F 380/200, Traffic | 1000 | 210 | 580 | 460 | 172 | 12,4 | 13220 |
| Type F 380/200, Industrial | 1000 | 210 | 580 | 460 | 248 | 11,9 | 13230 |
| Type F 380/300, Pedestrian | 1000 | 210 | 680 | 460 | 154 | 12,7 | 13260 |
| Type F 380/300, Traffic | 1000 | 210 | 680 | 460 | 172 | 12,6 | 13270 |
| Type F 380/300, Industrial | 1000 | 210 | 680 | 460 | 248 | 12,1 | 13280 |

RECYFIX®HICAP®F 200 Type 465, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900

Type F 465/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 465/200, Pedestrian | 1000 | 252 | 665 | 790 | 154 | 14,0 | 13410 |
| Type F 465/200, Traffic | 1000 | 252 | 665 | 790 | 172 | 13,9 | 13420 |
| Type F 465/200, Industrial | 1000 | 252 | 665 | 790 | 248 | 13,4 | 13430 |
| Type F 465/300, Pedestrian | 1000 | 252 | 765 | 790 | 154 | 14,2 | 13460 |
| Type F 465/300, Traffic | 1000 | 252 | 765 | 790 | 172 | 14,1 | 13470 |
| Type F 465/300, Industrial | 1000 | 252 | 765 | 790 | 248 | 13,6 | 13480 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



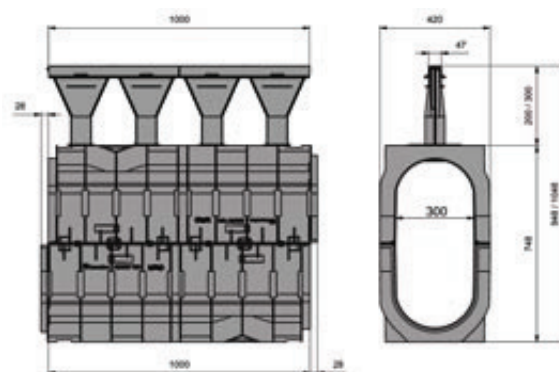
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® F

RECYFIX®HICAP®F 300 Type 750, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900*

Type F 750/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 750/200, Pedestrian | 1000 | 420 | 950 | 1714 | 154 | 24,0 | 13610 |
| Type F 750/200, Traffic | 1000 | 420 | 950 | 1714 | 172 | 23,9 | 13620 |
| Type F 750/200, Industrial | 1000 | 420 | 950 | 1714 | 248 | 23,4 | 13630 |
| Type F 750/300, Pedestrian | 1000 | 420 | 1050 | 1714 | 154 | 24,2 | 13660 |
| Type F 750/300, Traffic | 1000 | 420 | 1050 | 1714 | 172 | 24,1 | 13670 |
| Type F 750/300, Industrial | 1000 | 420 | 1050 | 1714 | 248 | 26,6 | 13680 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



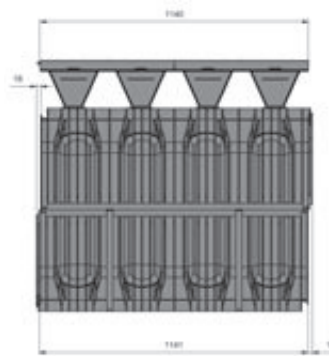
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® F

RECYFIX®HICAP®F 680 Type 860, PE-PP, slot desing made of spheroidal ductile iron GGG-50, loading capacity F 900*

Type F 860/200,
Pedestrian



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type F 860/200, Pedestrian | 1142 | 780 | 1060 | 4150 | 154 | 30,9 | 13810 |
| Type F 860/200, Traffic | 1142 | 780 | 1060 | 4150 | 172 | 31,0 | 13820 |
| Type F 860/200, Industrial | 1142 | 780 | 1060 | 4150 | 248 | 30,4 | 13830 |
| Type F 860/300, Pedestrian | 1142 | 780 | 1160 | 4150 | 154 | 31,9 | 13860 |
| Type F 860/300, Traffic | 1142 | 780 | 1160 | 4150 | 172 | 31,2 | 13870 |
| Type F 860/300, Industrial | 1142 | 780 | 1160 | 4150 | 248 | 30,6 | 13880 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

CIVILS

LANDSCAPING

AQUA

SPORT

RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

 **hauraton**
IT'S RUNNING WELL



RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.
DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

SPECIAL STANDARDS IN TIMES OF CLIMATE CHANGE

Due to the climate change the German Meteorological Service (DWD) has redefines heavy precipitations to be expected. Torrential rain lasting more than 5 minutes, which statistically is to be expected once in 5 years, must now be assessed to have 10 % more content than before. Large areas with a high traffic volume therefore require a particularly effective drainage solution.

At the same time the channel run must offer a large backwater reserve to meet community standards following measures for flood safety. In barrier-free urban and residential areas steps and kerbs, which would serve as a barrier for flood zones, are omitted. For these applications the drainage system must provide sufficient safety.



THE NEW SOLUTION: RECYFIX®HICAP®

RECYFIX HICAP has been developed for special drainage functions. The channel system is used for draining large areas and simultaneously serves as a retention space. The RECYFIX HICAP drainage system holds large volumes of surface water, guides it over large distances and at one point directs it to the main channel. The system offers very high hydraulic capacity for increasing drainage averages. This creates a large backwater reserve. At the same time it offers the option to restrict the water output to the main water channel and to slowly release the collected water into the sewage network.

ADVANTAGES

for planners

- ☐ Drainage and retention in one assembly
- ☐ Large selection of nominal sizes from 100 to 680 mm
- ☐ suitable for all load classes and all popular pavements
- ☐ fewer trash boxes and outlets
- ☐ allows projects to be designed with a uniform look

for contractors

- ☐ Quick and easy installation
- ☐ break-proof components
- ☐ no separate covers
- ☐ less sewer connection work

for construction companies

- ☐ Safety through large hydraulic capacity
- ☐ Easy to service
- ☐ Continuously uniform look



GRATINGS MADE OF STURDY SPHEROID DUCTILE IRON

The integrated gratings are made of high-quality spheroid ductile iron GGG-50. Different grating designs are available for different application areas. In roadways and pedestrian areas cross- or lengthwise webs are used. In industrial areas the "open slot" option with a particularly large intake-cross section can be used. The ductile iron GGG-50 surface driven on is extremely sturdy and unbreakable. It is designed for particularly high strain caused e.g. by heavy goods vehicles or airplanes.

The material spheroid ductile iron GGG-50 features 23 times more tensile strength and 9 times more compressive strength than polymer concrete. In regard to load and resistance to wear these physical characteristics clearly speak in favour of the RECYFIX HICAP channels.



PE-PP CHANNEL BODIES

The bodies of the RECYFIX HICAP channels are made of eco-friendly PE-PP recycled plastic. They are very lightweight and due to their low weight easy to install. The elements can be installed without installation aids.

They are non-breakable and easily connected with groove and tongue joints. Special connectors ensure the accurately fit transition between differently sized channels.

AT A GLANCE:

- ✓ Drainage and retention in one assembly
- ✓ consistently optic
- ✓ easy installation
- ✓ for highest loading capacities up to F 900

COMPRESSIVE STRENGTH

Ratio 9:1



TENSILE STRENGTH

Ratio 23:1



RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

RECYFIX HICAP channels have been tested to comply with DIN EN 1433 and are suitable for installation in loading classes A 15 to F 900



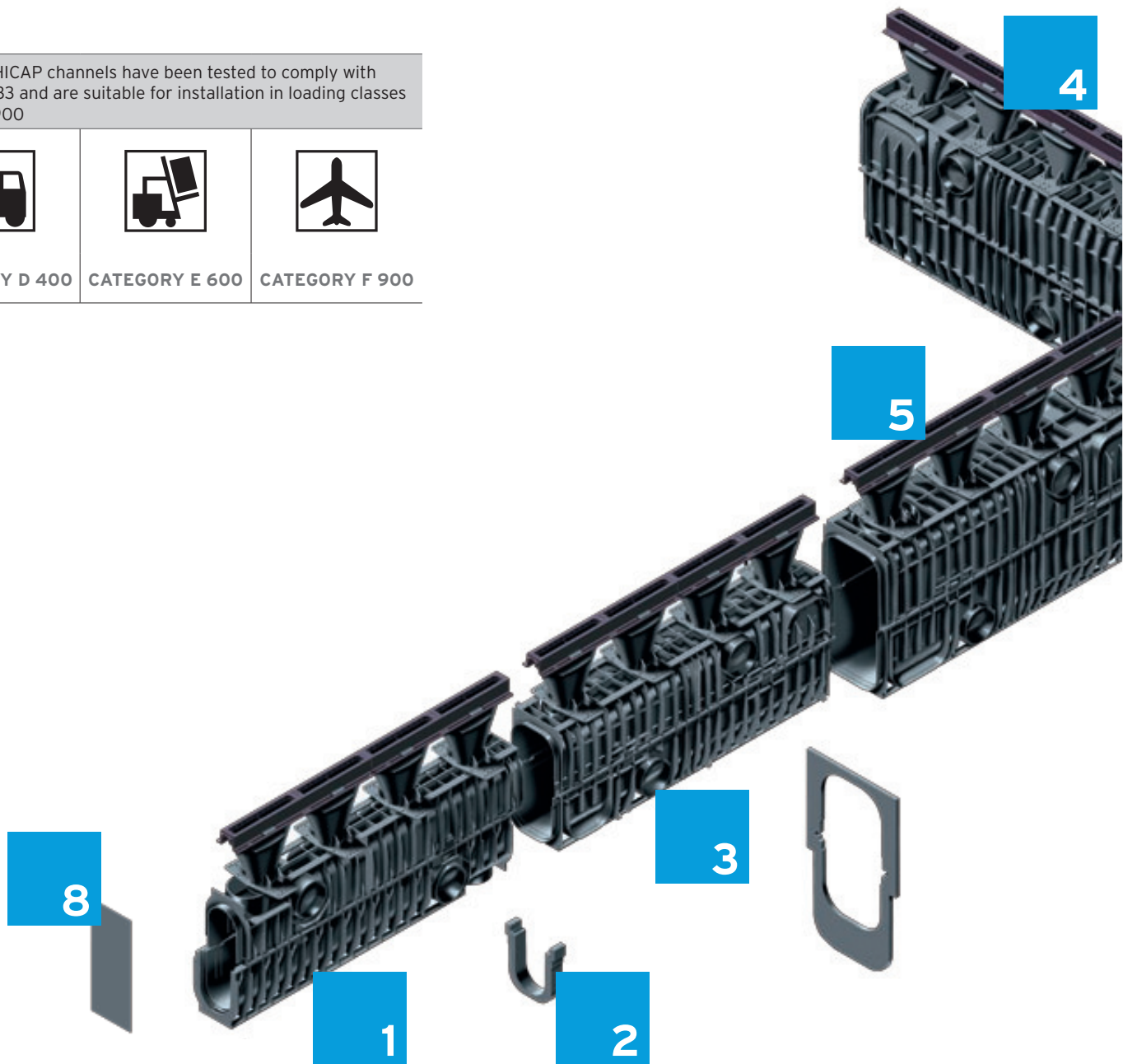
CATEGORY D 400



CATEGORY E 600



CATEGORY F 900



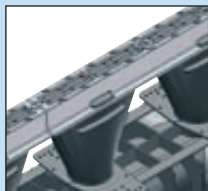
TYPES OF SLOTS

RECYFIX®HICAP® F

Inlet adaptors made of PE-PP



Traffic



Pedestrian



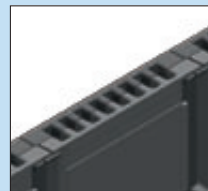
Industrial

RECYFIX®HICAP® G

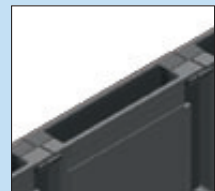
Inlet adaptors made ductile iron GGG-50



Traffic



Pedestrian *



Industrial *

* available from 2010



1

■ RECYFIX HICAP Channel 100 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

2

■ With the connecting plate the next nominal size is connected

3

■ RECYFIX HICAP Channel 150 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

4

■ T-connection for connection of leaks

5

■ RECYFIX HICAP Channel 200 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

6

■ RECYFIX HICAP Channel 300 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

7

■ RECYFIX HICAP Channel 680 made of PE-PP channel body and inlet adaptor with integrated ductile iron grating

8

■ End cap 100

9

■ End cap 680 with pipe connection possibility

10

■ Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multi part constructions are possible.

RECYFIX®HICAP®

EFFECTIVELY DRAINED - BUILT MODULAR.

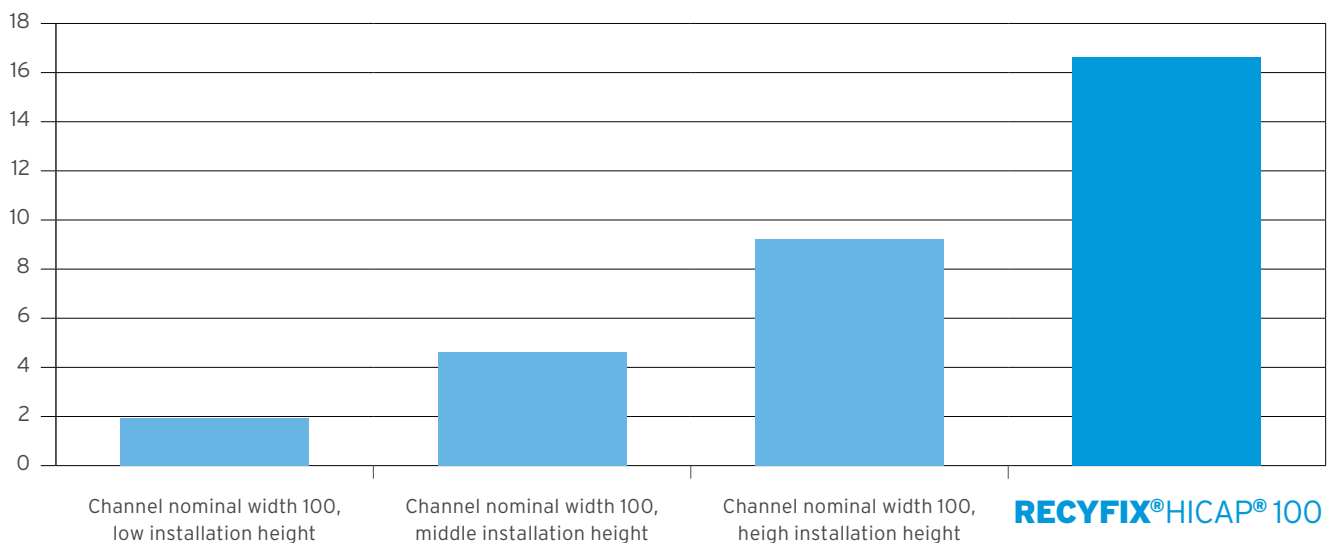
DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

DRAINING LARGE STRETCHES WITH ONLY ONE CHANNEL RUN

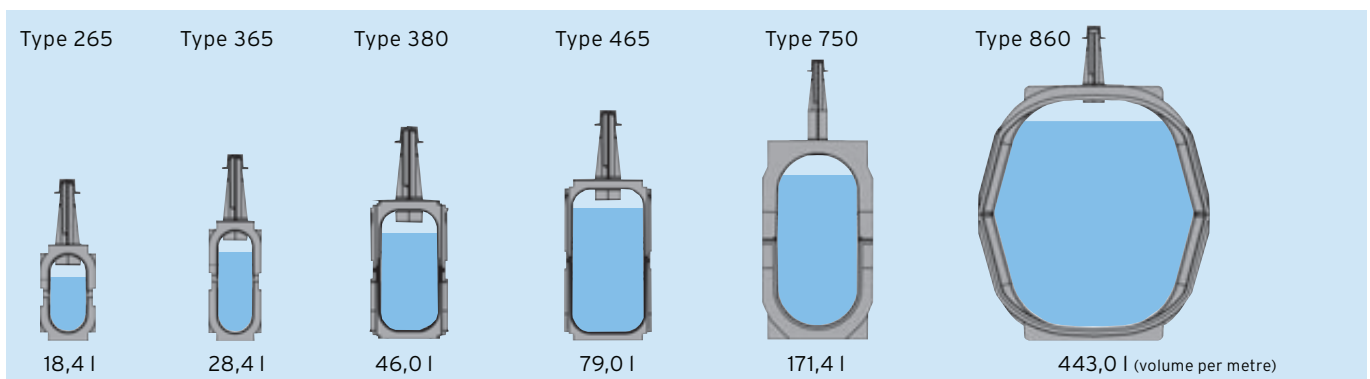
RECYFIX HICAP is so effective because large stretches can be implemented with one single channel run. Starting with a nominal width of 100 mm it offers the option to expand up to 680 mm. With this the installation height increases as well and a channel is created underground which cannot be seen above ground. What's seen there is a drain line with a consistently narrow cover

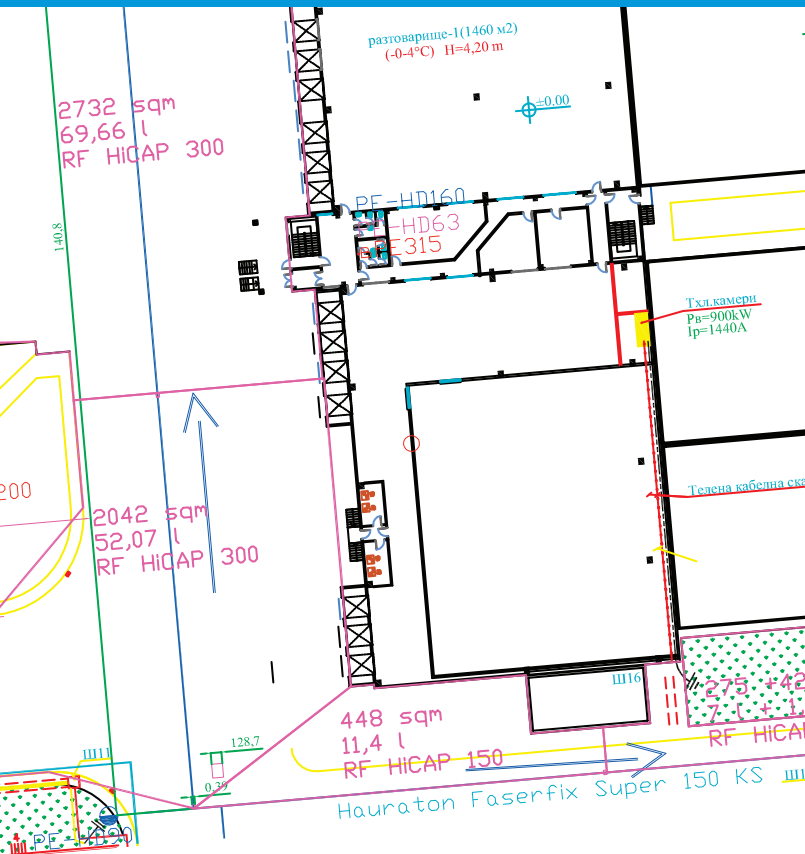
A trash box which can be installed at any location of the channel run is used to connect to the sewer system or as a connection to other branches of the drainage system. As a two-part component the trash box can also be used as a pump pit.

COMPARISON FLOW CAPACITY l/s



RECYFIX®HICAP®: CHANNELS WITH BACKWATER VOLUME





A PRACTICAL EXAMPLE:

The following practical example proves the large drainage- and retention capacity of RECYFIX HICAP channels:

Logistics Centre Plovdiv, Bulgaria

Channel length: 356 m, divided:

- 66 m RECYFIX HICAP 200 Type 465/300, open slot
- 136 m RECYFIX HICAP 300 Type 750/300, open slot
- 154 m RECYFIX HICAP 680 Type 860/300, open slot

Total drainage area: 10.730 m²

Runoff coefficient (specified by the planner): 0,85

Rain yield factor (specified by the planner): 300,0 l/s ha

→ **Discharge capacity at end of channel run: 252 l/s**

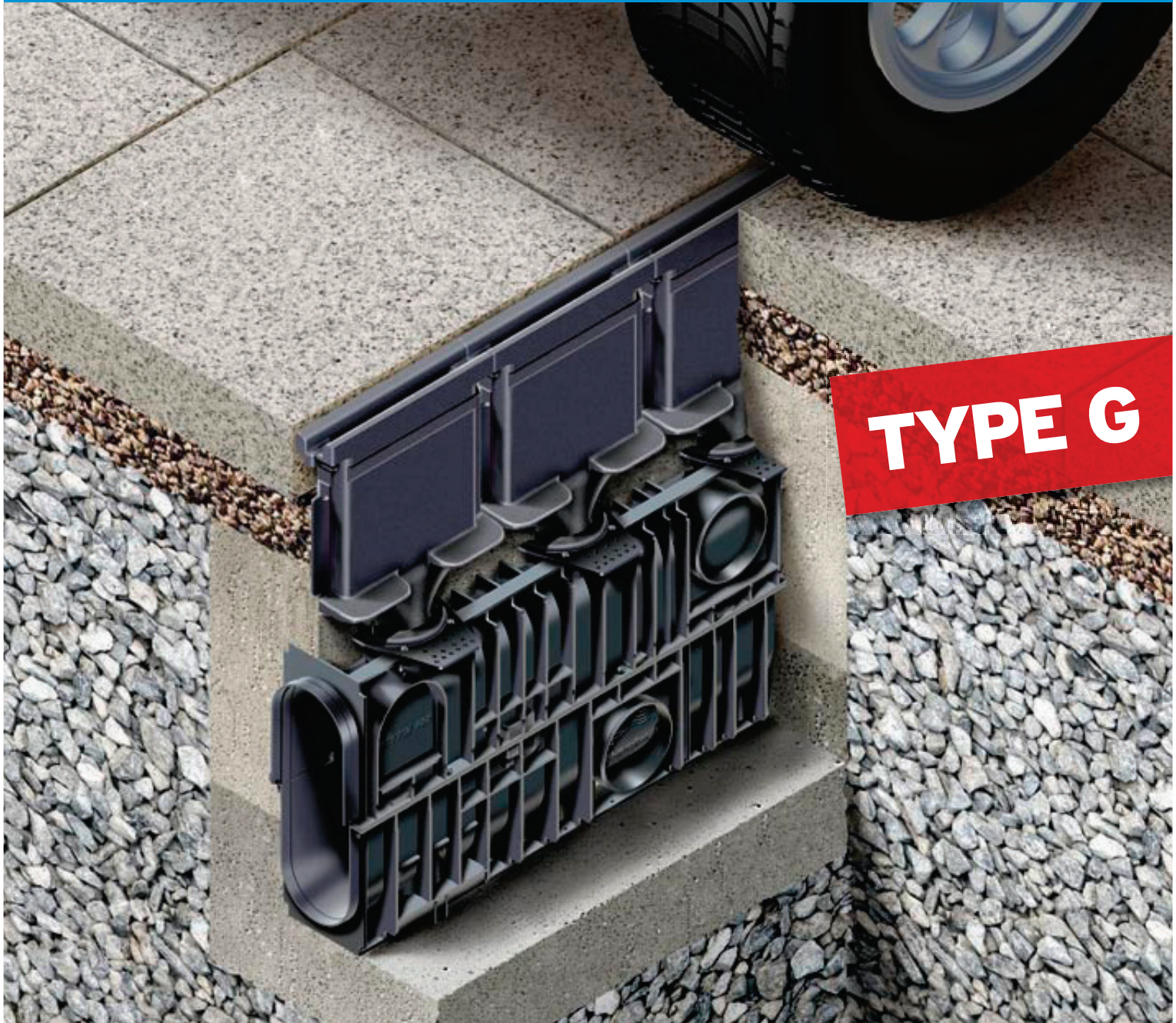
One single channel run drains a surface of more than 10,000 m², directs the entire water amount over more than 356 m and at the end puts it out into the public sewer at one single point, at a rate of 252 l/s.



RECYFIX® HICAP® G

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.



RECYFIX® HICAP® G

- for direct installation of pavement, flagging and asphalt
- Slotted channel made from ductile iron GGG-50
- Channel body made from PE-PP

RECYFIX®HICAP® G

EFFECTIVELY DRAINED - BUILT MODULAR.

DRAINAGE- AND RETENTION SYSTEM FOR LARGER AREAS.

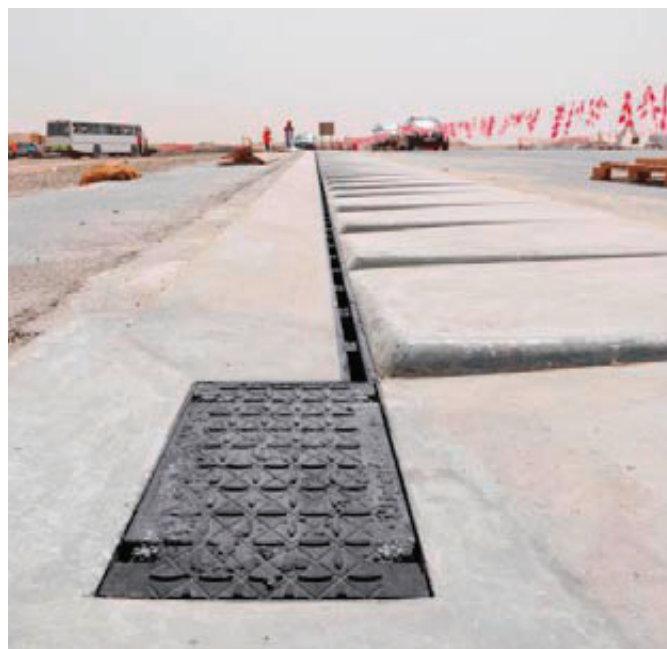
REPORT FROM THE FIELD:

RECYFIX®HICAP® G

20 KM DRAINAGE CHANNELS FOR NEW FORMULA 1 TRACK, ABU DHABI

LARGEST JOB TO DATE IN THE COMPANY'S HISTORY

With more than 20 km of drainage channels it is the largest job in the HAURATON history. The latest channel system, the RECYFIX HICAP G, convinces HAURATON customers in the United Arab Emirates. The drainage system is innovative and the first system with a PE-PP channel body with a slotted cover made of heavy duty ductile iron, offering permanent safety for extreme loads.



RECYFIX®HICAP® G: THE FIRST DUCTILE IRON SLOTTED CHANNEL

The demanding race track is being built on a 170 hectare site and will be 5.55 kilometres long. The new channel system was developed especially for the special requirements of Formula 1: RECYFIX HICAP G. The advantages of this first ductile iron slotted channel with a PE-PP channel body were the key criteria for the contract being awarded. The drainage channels withstand the highest dynamic strains and are safe and reliable. At the same time they must also withstand the extreme suction effect generated by the high speeds of the bolides. The RECYFIX HICAP G used on the track not only meets the safety requirements but with their superior hydraulic capacity they also fulfil the functions of a sewer along the track. The channels take on surface water, carry it over long stretches and feed it into the main water channel at a single point.



Channel installation at the new Formula 1 track, Yas Marina Circuit, Abu Dhabi

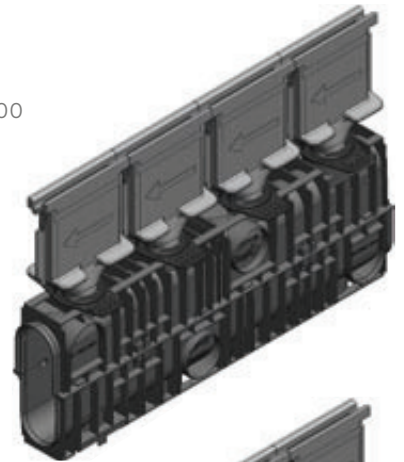
ADVANTAGES: SLOT ATTACHMENT MADE OF SPHEROIDAL DUCTILE IRON: SUPER STURDY AND NONCORROSIVE

RECYFIX HICAP G is super sturdy and is used in areas with extreme loads. What's revolutionary is the use of the ductile iron material. Spheroid ductile iron GGG-50 combines the properties stability (slotted channels made of steel easily deform with the use of heavy pavements) and durability (galvanised steel can easily corrode in moist soils, losing the zinc protector, stainless steel is significantly more expensive). With spheroid ductile iron at the surface and the dual hydraulic performance underground the product offers a new dimension of safety.

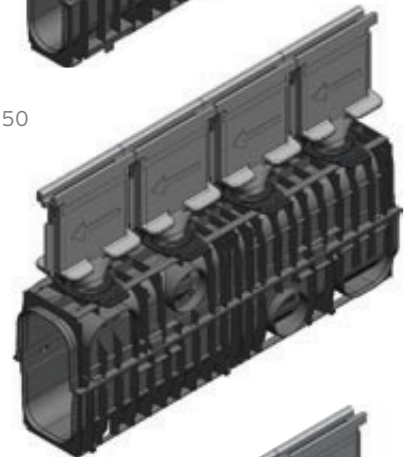
VISUALLY DISCRETE AND EXTREMELY DURABLE

The "virtually invisible" channels are especially suited for the design of appealing sites and architecturally challenging areas where large-scale paving stone or natural stone pavements are oftentimes used: dynamic strains from traffic put great force on the upper edges of the channels. That's where the ductile iron attachment with integrated intake adapter offers especially great resistance against the emerging forces and prevents damage.

■ RECYFIX HICAP G 100



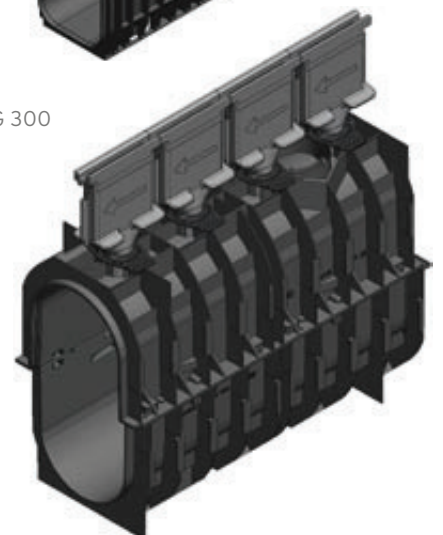
■ RECYFIX HICAP G 150



■ RECYFIX HICAP G 200



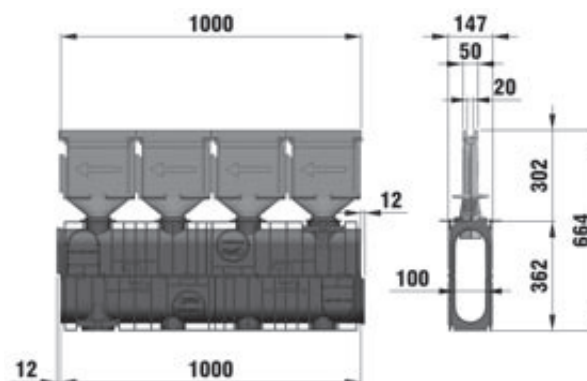
■ RECYFIX HICAP G 300



RECYFIX®HICAP® G

RECYFIX®HICAP®G 100, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

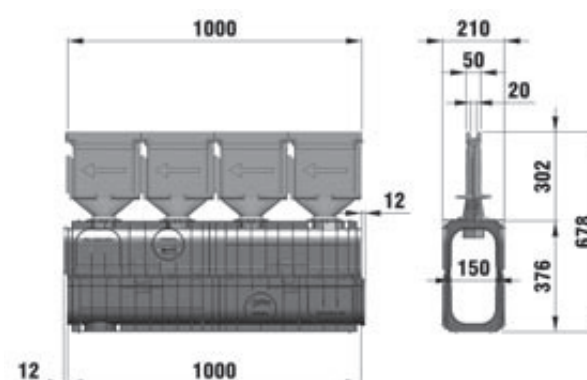
Type 365



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 365 | 1000 | 147 | 664 | 284 | 152 | 37,3 | 16150 |

RECYFIX®HICAP®G 150, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

Type 380



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 380 | 1000 | 210 | 678 | 460 | 152 | 37,0 | 16200 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



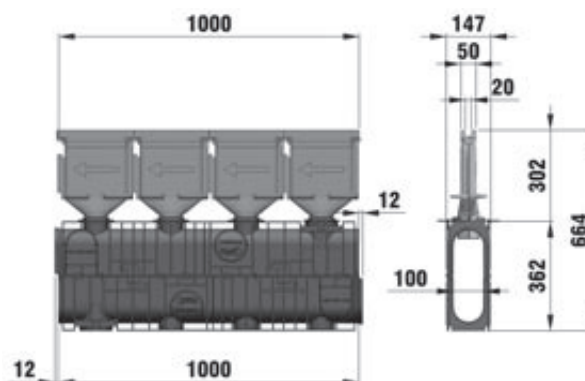
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® G

RECYFIX®HICAP®G 100, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

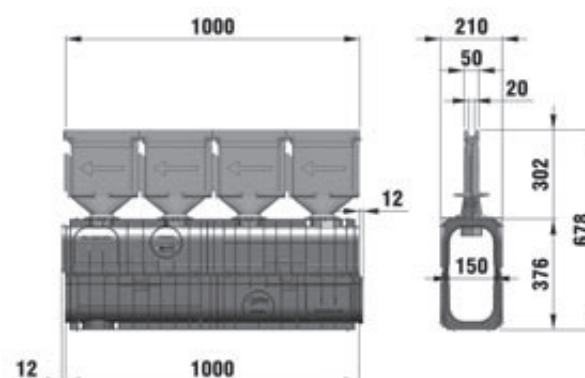
Type 365



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 365 | 1000 | 147 | 664 | 284 | 152 | 37,3 | 16150 |

RECYFIX®HICAP®G 150, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

Type 380



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 380 | 1000 | 210 | 678 | 460 | 152 | 37,0 | 16200 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



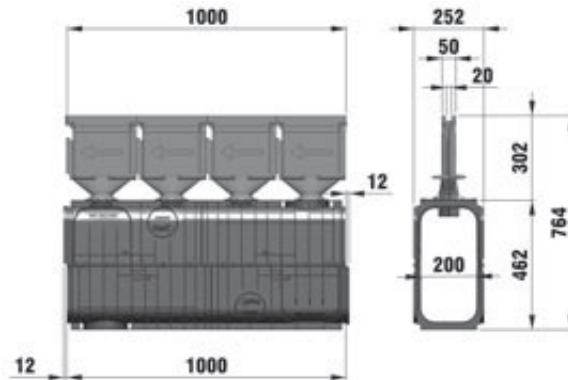
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® G

RECYFIX®HICAP®G 200, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

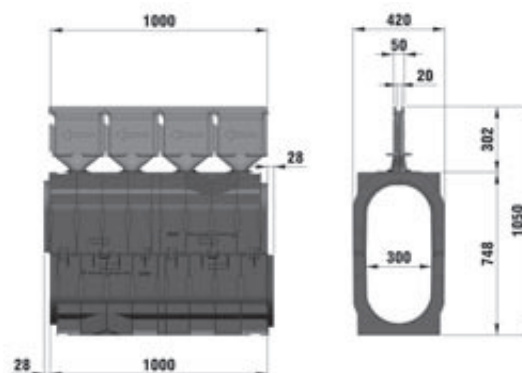
Type 465



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 465 | 1000 | 252 | 764 | 790 | 152 | 38,6 | 16350 |

RECYFIX®HICAP®G 300, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

Type 750



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 750 | 1000 | 420 | 1050 | 1714 | 152 | 48,6 | 16400 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



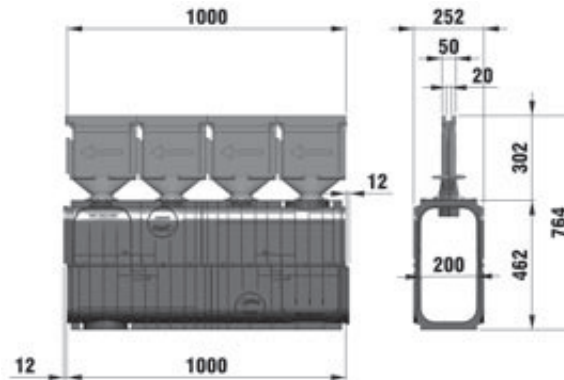
Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

RECYFIX®HICAP® G

RECYFIX®HICAP®G 200, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

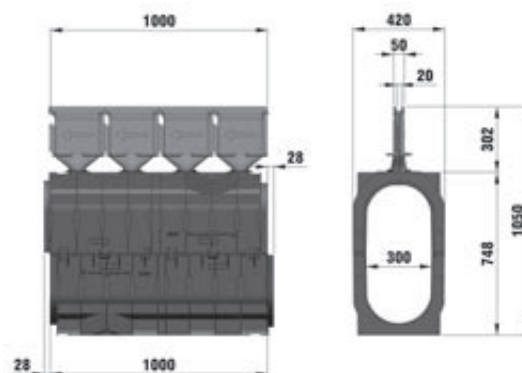
Type 465



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 465 | 1000 | 252 | 764 | 790 | 152 | 38,6 | 16350 |

RECYFIX®HICAP®G 300, PE-PP body, slot desing made of spheroidal ductile iron GGG-50, loading capacity **F 900**

Type 750



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² /m | Weight kg | Item No. |
|----------|--------------|-------------|--------------|--|---|--------------|-------------|
| Type 750 | 1000 | 420 | 1050 | 1714 | 152 | 48,6 | 16400 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®100, Accessories



End cap 100, type 365



End cap 100 with outlet, type 365



Verbindungsstück 100 > 150, type 365

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 100, type 365 | - | 160 | 365 | 1,8 | 13012 |
| End cap 100 with outlet, type 365 | - | 160 | 365 | 2,0 | 13015 |
| End cap type 265 | - | 140 | 250 | 1,2 | 13013 |
| End cap with outlet, type 265 | - | 140 | 250 | 1,2 | 13018 |
| Connecting plate 100 > 150, type 365 | - | - | - | 2,0 | 13017 |

RECYFIX®HICAP®150, Accessories



End cap 150



End cap 150 with outlet



Connecting plate 150 > 200

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 150 | - | 210 | 379 | 2,0 | 13212 |
| End cap 150 with outlet | - | 210 | 379 | 2,4 | 13215 |
| Connecting plate 150 > 200 | - | - | - | 2,2 | 13217 |

RECYFIX®HICAP®200, Accessories



End cap 200



End cap 200 with outlet



Connecting plate 200 > 300

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 200 | - | 252 | 465 | 2,0 | 13412 |
| End cap 200 with outlet | - | 252 | 465 | 2,1 | 13415 |
| Connecting plate 200 > 300 | - | - | - | 2,0 | 13417 |

RECYFIX®HICAP® – ACCESSORY

RECYFIX®HICAP®300, Accessories



End cap 300



End cap 300 with outlet



Connecting plate 300 > 680

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| End cap 300 | - | 420 | 748 | 3,0 | 13612 |
| End cap 300 with outlet | - | 420 | 748 | 5,6 | 13615 |
| Connecting plate 300 > 680 | - | - | - | 6,0 | 13617 |

RECYFIX®HICAP®680, Accessories *



End cap 680, 2-parts

**Nominal width
100 mm**

| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-------------|--------------|-------------|--------------|--------------|-------------|
| End cap 680 | 192 | 780 | 860 | 4,4 | 13817 |

* Only for RECYFIX HICAP Type F

RECYFIX®HICAP® Trash box, Accessories



Trash box with galvanised angle housing and boltless locking system SIDE-LOCK, ductile iron grating cl. F 900 and 2-sided pipe connection possibility. Applicable for variable nominal size intersection on any position of the channel run. Also multipart constructions are possible.

For the installation of trash boxes please ask in the factory.

FASERFIX®POINT

POINT DRAINAGE WHERE IT IS REQUIRED.
FOR PUBLIC AND COMMERCIAL AREAS.



The background of the advertisement is a photograph of a parking lot. Two cars are parked: a silver Citroën Xsara on the left and a dark blue Renault Scenic on the right. In the foreground, a square metal drainage grate is visible on the asphalt, which is marked with white diagonal lines. A red banner with white text is overlaid on the right side of the image.

AT A GLANCE

- ✓ Ideal for yards and squares with heavy traffic
- ✓ Highly stable, reduced weight
- ✓ With SIDE-LOCK boltless locking system
- ✓ Visually attractive and very strong GUGI-Ductile iron mesh gratings with high drainage capacity

FASERFIX®POINT

POINT DRAINAGE WHERE IT IS REQUIRED.
FOR PUBLIC AND COMMERCIAL AREAS.

REQUIREMENTS

Draining away surface water at a certain point for reasons of building layout and topography. The system to be used must be able to permanently withstand the expected traffic load and integrate harmoniously into the surrounding surface finish.

SOLUTION

FASERFIX POINT SUPER yard gullies are heavy-duty point drainage systems in fibre-reinforced concrete that comply with DIN EN 124. The top edges are protected by a galvanised steel angle housing all round. The gratings are securely locked to the base box using the SIDE-LOCK boltless locking system. The point inlets are equipped with an integral KG connector sleeve for connecting to the ground drainage system. A mud bucket in galvanised steel or plastic will be supplied with all FASERFIX POINT SUPER inlets. In addition, an immersion baffle in galvanised steel is used in the FASERFIX POINT SUPER point inlet as foul air trap.

APPLICATION AREAS

Draining surface water from yards, squares and parking areas in commercial and private areas.

POINT INLET

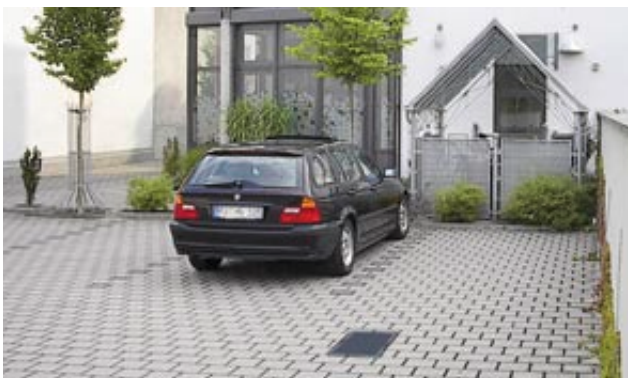
All FASERFIX POINT SUPER yard gullies can be installed with different construction heights. Connection to any common ground drainage pipe is easy via the integrated KG connection sleeve.

TRASH BOX

FASERFIX POINT SUPER yard gullies can also be used as trash boxes in linear drainage runs of various channel types. When using FASERFIX SUPER trash boxes as inlet boxes, it is possible to connect FASERFIX SUPER channels of the sizes NW 100, 150, 200 and 300 mm. The boxes have integrated connectors on all four sides. This makes it possible to install right-angle corners, T-junctions or cross-shaped connections.

SLUDGE TRAP

Where the trapping of solids is a requirement, it is also possible to install the FASERFIX SUPER trash box or the 2- or 3-part FASERFIX POINT SUPER yard gully as sludge trap. In that case, the outlet openings in the lower part will be closed off and an additional outlet opening inserted in the middle part or the upper part.



FASERFIX®POINT

Point drainage for many application areas

| Models | Inlet box | Point inlet | Sludge trap | Pump sump |
|--------------------------------|-----------------|-------------|-------------|-----------|
| FASERFIX SUPER Yard gully | ✗ ¹⁾ | ✗ | ✗ | ✗ |
| FASERFIX POINT SUPER Typ 30/30 | ✗ ²⁾ | ✗ | – | – |
| FASERFIX POINT SUPER Typ 40/40 | ✗ ³⁾ | ✗ | ✗ | ✗ |

1) for FASERFIX SUPER KS NW 100 - 300 mm, 2) for FASERFIX SUPER KS 100, type 010, 3) for FASERFIX SUPER KS 150, type 010

FASERFIX®POINT

TAILOR-MADE SOLUTIONS.

EXAMPLES OF TAILOR-MADE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

All sites have their own specific topography which needs to be matched by individual drainage systems. In addition, the layout of buildings determines certain aspects of the system. HAURATON has a specialised team dealing exclusively with non-standard solutions - from the outline design stage right through to timely delivery and support during installation. In this way a suitable solution will be found for all applications, including point inlets, which can be sited to suit the individual situation of a project.



DRESDEN, WIENER PLATZ

The Wiener Platz is the central traffic hub in Dresden. The different transport modes, such as railway, cars and buses, tramway, bicycles and wheelchairs are interlinked on different levels. For a visually appealing streetscape design of surfaces and façades, the FASERFIX POINT yard gullies and FASERFIX SUPER channels were fitted with custom-fabricated stainless steel gratings. A special request from the client and architects was the narrow mesh size of the gratings that provides better safety for pedestrians, cyclists and wheelchair users and prevents the ingress of coarser dirt items into the drainage system. The effect adds to the harmonious overall design that does justice to the outstanding architecture.



FASERFIX®SUPER KS

FASERFIX®BIG

FASERFIX®TRAFFIC

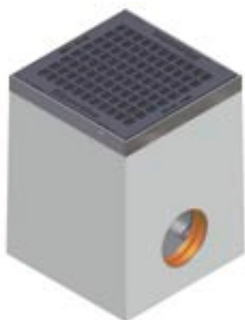
RECYRFIX®SUPER KS

RECYRFIX®PLUS X

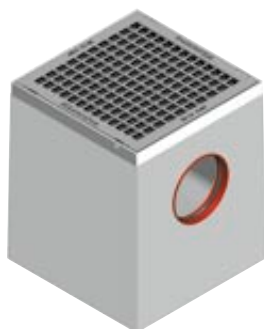
RECYRFIX®HICAP

FASERFIX®POINT

FASERFIX®POINT SUPER 30/30



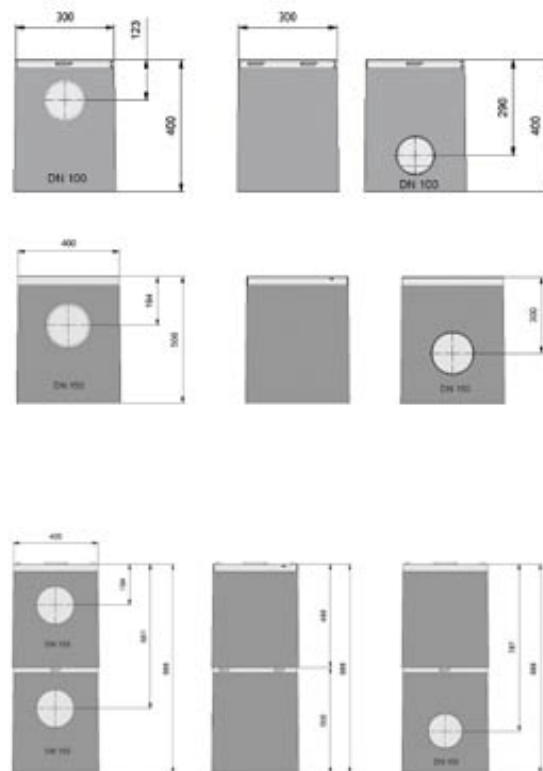
with GUGI-Ductile iron mesh grating MW 20/30, black



One piece with GUGI-Ductile iron mesh grating MW 20/30, black



Two piece with GUGI-Ductile iron mesh grating MW 20/30, black



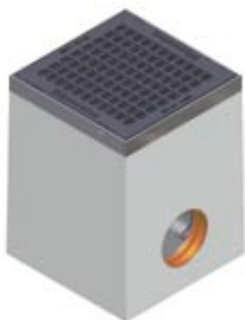
FASERFIX®POINT SUPER 30/30 - Point drain, class E 600

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| with GUGI-Ductile iron mesh grating MW 20/30, black | 300 | 300 | 400 | 43,7 | 4400 |
| with GUGI-Ductile iron mesh grating MW 20/30, galvanised | 300 | 300 | 400 | 44,1 | 4420 |

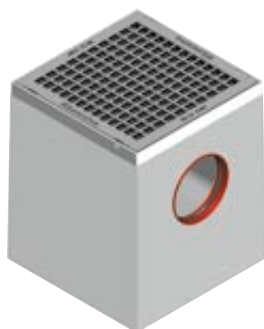
FASERFIX®POINT SUPER 40/40 - Point drain, class E 600

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| One piece with GUGI-Ductile iron mesh grating MW 20/30, black | 400 | 400 | 500 | 93,1 | 4700 |
| Two piece with GUGI-Ductile iron mesh grating MW 20/30, black | 400 | 400 | 988 | 154,1 | 4800 |
| One piece with GUGI-Ductile iron mesh grating MW 20/30, galvanised | 400 | 400 | 500 | 94,0 | 4720 |
| Two piece with GUGI-Ductile iron mesh grating MW 20/30, galvanised | 400 | 400 | 988 | 155,0 | 4820 |
| Extension part | 400 | 400 | 438 | 58,5 | 4825 |

FASERFIX®POINT SUPER 30/30



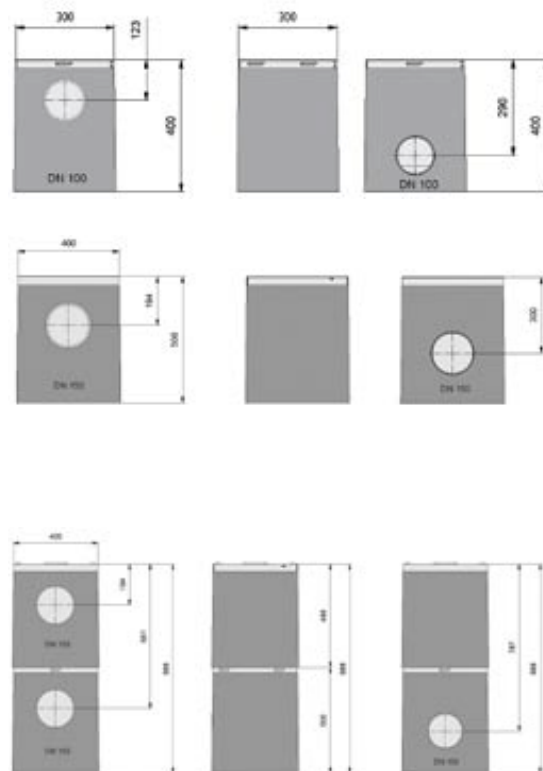
with GUGI-Ductile iron mesh grating MW 20/30, black



One piece with GUGI-Ductile iron mesh grating MW 20/30, black



Two piece with GUGI-Ductile iron mesh grating MW 20/30, black



FASERFIX®POINT SUPER 30/30 - Point drain, class E 600

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| with GUGI-Ductile iron mesh grating MW 20/30, black | 300 | 300 | 400 | 43,7 | 4400 |
| with GUGI-Ductile iron mesh grating MW 20/30, galvanised | 300 | 300 | 400 | 44,1 | 4420 |

FASERFIX®POINT SUPER 40/40 - Point drain, class E 600

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|-------------|
| One piece with GUGI-Ductile iron mesh grating MW 20/30, black | 400 | 400 | 500 | 93,1 | 4700 |
| Two piece with GUGI-Ductile iron mesh grating MW 20/30, black | 400 | 400 | 988 | 154,1 | 4800 |
| One piece with GUGI-ductile iron mesh grating MW 20/30, galvanised | 400 | 400 | 500 | 94,0 | 4720 |
| Two piece with GUGI-Ductile iron mesh grating MW 20/30, galvanised | 400 | 400 | 988 | 155,0 | 4820 |
| Extension part | 400 | 400 | 438 | 58,5 | 4825 |



CIVILS

LANDSCAPING

AQUA

SPORT

LANDSCAPING

THE RANGE FOR DOMESTIC AND LANDSCAPING

 **hauraton**
IT'S RUNNING WELL



THE RANGE FOR DOMESTIC AND LANDSCAPING

INNOVATIVE PRODUCTS FOR GARDENING AND LANDSCAPING FOR
IMAGINATIVE DESIGNS AND RELIABLE SURFACE DRAINAGE.

Garden and landscape design makes a significant contribution to the healthy and attractive qualities of our environment and helps bridge the gap between the built environment and nature. To preserve and sustain this balance, we need to think and act with the environment in mind - including the use of ecologically orientated building materials and careful use of resources.

With its innovative range of surface drainage products, HAURATON makes an important contribution. For example, the material RECYFIX consists of 100% recycled PE-PP. All products are easy to transport and install and yet are extremely rugged. With its RECYFIX range, HAURATON is the leading supplier of drainage channels made of PE-PP - a range that meets all aesthetic and functional criteria.

HAURATON will cooperate with landscape architects and designers and will support the construction process with initial measuring up through to installation and completion. We provide detailed installation instructions as well as on-site service to make sure the LANDSCAPING solution achieves the perfect result. HAURATON plans and prepares the installation process in-house before going on site. An effective and sophisticated logistics concept ensures that we can deliver anywhere within a short time frame - just in time for the products to be installed on site without delay, giving contractors the assurance that their project schedules will not be interrupted.

Our LANDSCAPING products always reflect the latest state of technology and comply with all standards and regulations. In addition, HAURATON involves external monitoring of products and internal processes - our customers' guarantee for reliable design and long-lasting solutions.



PERFECT SUPPORT FOR YOUR DESIGNS



RECYFIX®PLUS STABLE DRAINAGE



RECYFIX®STANDARD ENVIRONMENTALLY FRIENDLY DRAINAGE



SLOTTED CHANNELS UNOBTRUSIVE DESIGN - LARGE DRAINAGE CAPACITY



FASERFIX®STANDARD RELIABLE DRAINAGE



RECYFIX®POINT FASERFIX®POINT POINT DRAINAGE



DACHFIX® PERFECT DRAINAGE FOR FAÇADES AND FLAT ROOFS



RECYFIX®GREEN SUPER VERY STRONG AND ENVIRONMENTALLY FRIENDLY



RECYFIX®GREEN STANDARD ENVIRONMENTALLY FRIENDLY, LIGHT AND ROBUST



RECYFIX®STREIF FOR CLEANER ENTRANCES



LINEFIX® FOR FLEXIBLE BORDER EDGING



SPECIAL SOLUTIONS SEE THE RESPECTIVE PRODUCT SECTIONS

PERFECT SUPPORT FOR YOUR DESIGNS

A SUPERIOR DRAINAGE SYSTEM STARTS AT THE DESIGN PHASE. WE PROVIDE COMPETENT SUPPORT, INCLUDING CALCULATIONS FOR THE HYDRAULIC SPECIFICATION, LAY OUT PLANS FOR DRAINAGE CHANNELS OR CUSTOM-DESIGNED SOLUTIONS.

USE OUR EXPERTISE TO YOUR BEST ADVANTAGE

Our internal and external sales staff are truly experts in the design of drainage systems. Their extensive technical and product knowledge is your guarantee for expert consultations – and hence the best possible solution for all requirements. We will support your individual building project from project-related tender documents through to production and in-time delivery on site – even where the brief calls for unusual duties and design.

NON-STANDARD PARTS - CUSTOM- DESIGNED TO YOUR REQUIREMENTS

Not all drainage situations can be resolved with the standard production range of products. For this reason we produce non-standard parts in accordance with customers' specifications. In that way a perfect solution can be found for all situations.

RELIABLE DESIGN DATA BASED ON HYDRAULIC CALCULATIONS

All projects have their own specific requirements which need to be matched by individual drainage systems. In order to be able to assess your project professionally regarding type and scope, we will calculate the hydraulic requirements for you free of charge. The staff at our CAD department just need a few data such as the size of the area to be drained, surface covering, intensity of rainfall, type of channels, etc. – just talk to one of our internal or field sales staff!

DETAILED INSTALLATION PLANS WITH COMPLETE PARTS LIST

In addition, we will produce a detailed installation plan for your project. The CAD-produced drawings show the exact location of drainage channels, including the positions of end caps, TRASH BOXes and other fittings. They will also include a complete parts list including the quantity and designation of the required products. These installation plans are provided by us also free of charge.



We will produce free-of-charge hydraulic calculations to determine the channel capacity for.

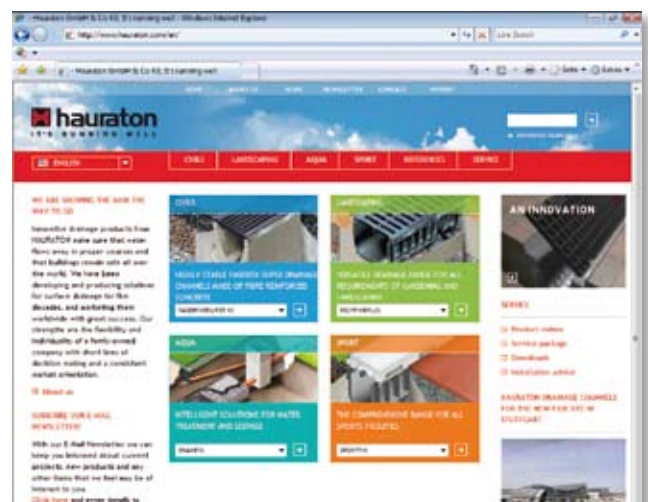


OUR ADVANTAGES FOR THE DESIGNER

- ✓ Reliable design input
- ✓ Individual design support
- ✓ Calculation of hydraulic requirements free of charge
- ✓ Layout plans produced by us free of charge via the Internet:
- ✓ Practical help for downloading
- ✓ Comprehensive reference database

HAURATON IN THE INTERNET

Visit www.hauraton.com where you can find all required information: product information with picture documentation, always up to date, tender proposals for downloading, a comprehensive reference database with numerous projects throughout Europe and a tool for you to compile and print out or save your individual catalogue. There is a fast and competent online service to respond to your enquiries at any time.



RELIABLE PRODUCTS FOR YOUR DESIGNS

ALL HAURATON PROCESSES AND PRODUCTS ARE STRICTLY MONITORED. THAT IS HAURATON'S GUARANTEE TO ITS CUSTOMERS TO ENSURE A HIGHLY RELIABLE PRODUCT.

**DIN EN 1433 / CE-MARK
HAURATON CHANNELS COMPLY
WITH DIN EN 1433**

- U-profiles for highly efficient drainage with self-cleaning effect
- long-life seals easy to apply
- tongue and groove connection for precise installation
- maximum resistance to the effects of salt and weather, including frost
- different depths for long drainage runs with varying degrees of fall
- built-in fall of 0.6 % for improved hydraulics and fast drainage speed
- large back-pressure volume through construction depths of up to 280 mm
- large selection of gratings for all types of applications and visual requirements

HURATON one of the largest ranges of DIN-compliant drainage channels.

QUALITY CERTIFICATION IN ACCORDANCE WITH DIN EN ISO 9001:2000

As one of the first companies in the building industry, HAURATON achieved quality certification in accordance with DIN EN ISO 9001 back in 1993. Since then, quality standards have been driven up continuously, including regular certification.

The quality requirements of DIN EN ISO 9001:2000 cover not only the products but the whole company, including development, design, production, assembly and customer service. HAURATON's quality management in accordance with DIN EN ISO 9001:2000 provides the highest degree of reliability and safety to our customers.



RECYFIX®CHANNELS



STANDARDS, APPROVALS AND WARRANTY

HAURATON channels are not only certified in accordance with DIN EN 1433 but also with the considerably more stringent German DIN V 19580. CE-mark, external monitoring and conformity statement are guarantees for the designer that ensure the highest technical standard. The channels are frost and salt resistant and completely watertight, this combined with their robust construction ensures that they will provide many years of service. HAURATON was one of the first manufacturers in the building industry to voluntarily offer a guarantee period of 5 years.

For a number of FASERFIX SUPER channels and FASERFIX BIG channels we also hold a General Building Control Approval by the DIBt (German Institute for Building Technology) for special applications in industrial locations where liquids that are hazardous to water as per §19 WHG (Water Resources Act) are handled, stored or decanted, such as tank installations. For further details please consult the [CIVILS catalogue](#).

AT A GLANCE

- ✓ Easy to handle due to low weight
- ✓ 100 % recyclable
- ✓ Made of pure recycled PE-PP
- ✓ Highly chemical-resistant
- ✓ Leakproof and UV-stabilised



RECYFIX PE-PP is the basis for many rugged and durable products for many areas of application.



CIVILS

LANDSCAPING

AQUA

SPORT

RECYFIX[®]PRO



INNOVATIVE DRAINAGE SYSTEM MADE OF PE-PP AND PA-GF
FOR DOMESTIC AND COMMERCIAL APPLICATIONS UP TO LOADING CLASS C 250

 **hauraton**
IT'S RUNNING WELL

**NOW WITH NEW
FIBRETEC[®] GRATING**



RECYFIX®PRO

INNOVATIVE DRAINAGE SYSTEM MADE OF PE-PP AND PA-GF

FOR DOMESTIC AND COMMERCIAL APPLICATIONS UP TO LOADING CLASS C 250

RECYFIX®PRO channels meet the requirements of DIN EN 1433 and are suitable for the following loading capacities:

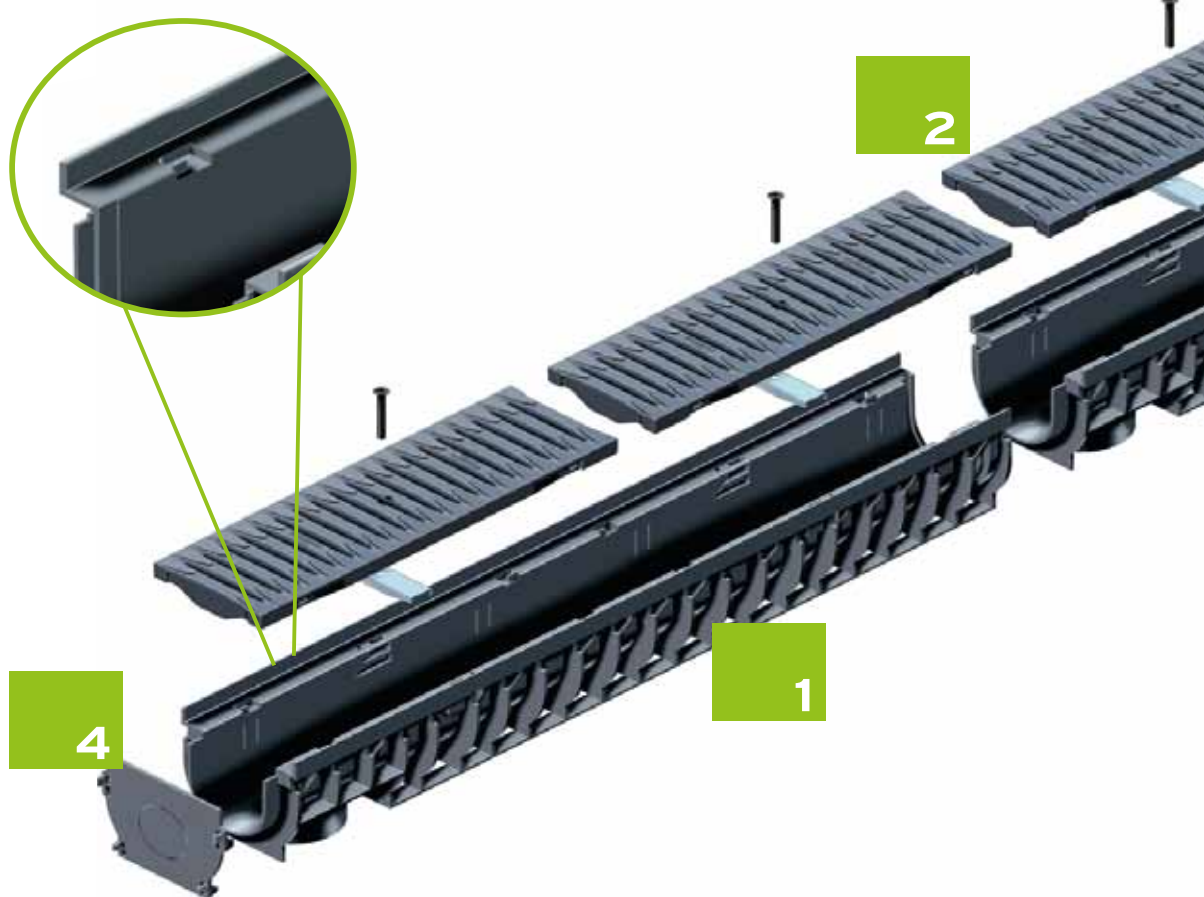


**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**

Edge protection with
5 mm wall thickness



GRATING OPTIONS FOR RECYFIX®PRO CHANNELS

GUGI-Grating made of
PA-GF, MW 20/30, black

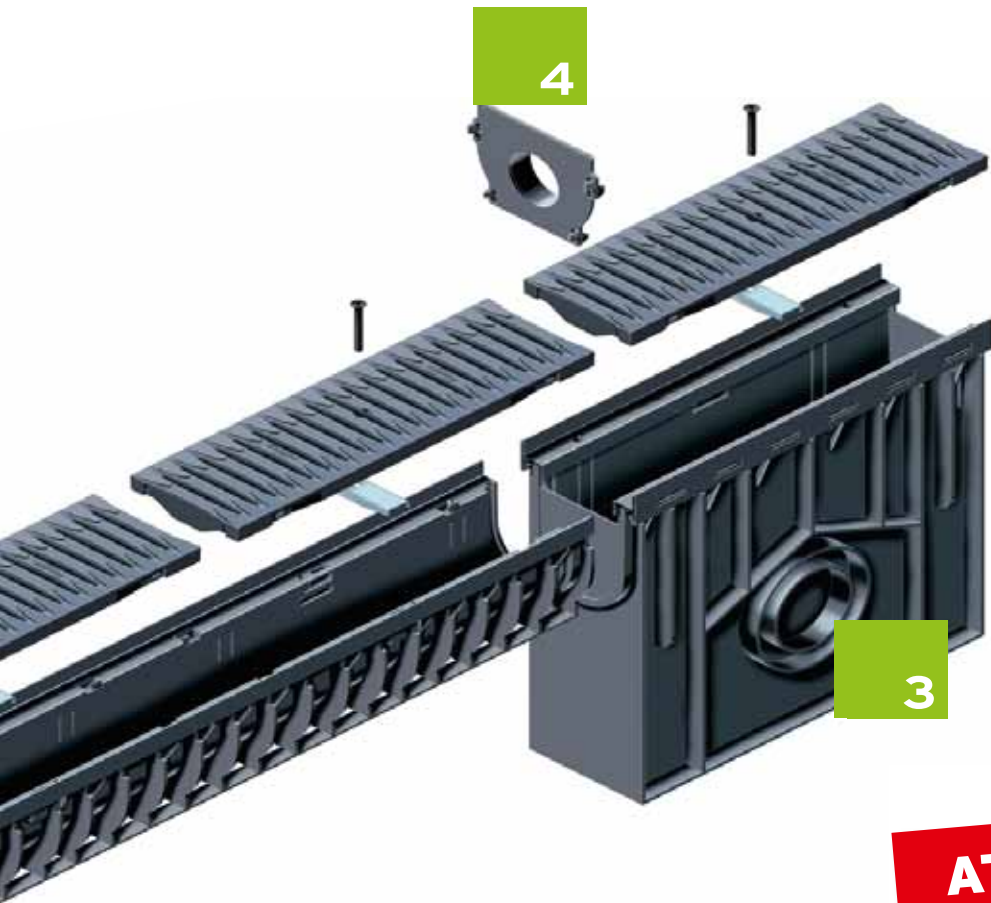


FIBRETEC® Slotted grating,
SW 9 mm, black



Classe de charge

| | | |
|--------------|-----|-----|
| B 125 | 100 | |
| C 250 | | 100 |



AT A GLANCE

- ✓ Channel made of PE-PP and grating made of high-quality PA-GF (Polyamide)
- ✓ drainage system according EN 1433 up to loading capacity C 250
- ✓ lightweight, robust and easy to install

1

- Channels made of PE-PP, according DIN V 19580 / EN 1433, CE-conform, with tongue and groove connection

2

- FIBRETEC® Slotted grating, SW 9 mm, black

3

- Trash box with pipe-connection possibilities

4

- End caps with or without outlet

FIBRETEC® SLOTTED GRATING

INNOVATIVE GRATING MADE OF PA-GF FOR RECYFIX PRO

CORROSION-FREE, WITH OPTIMISED HYDRAULICS AND UNIQUE DESIGN

NEW



AT A GLANCE

- ✓ corrosion-free
- ✓ optimised hydraulics
- ✓ unique design

Evolutionary history of the unique FIBRETEC® Slotted grating:



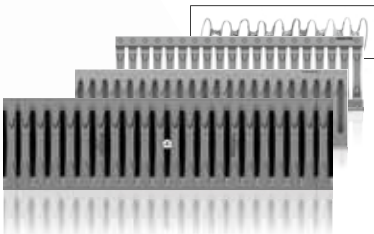
„The basis of our product development always starts by **listening to our customers**. They asked for innovative ideas to solve the topic of corrosion once and for all. That's why we started to search for ideas.“

Dieter Bastian
Sales Director HAURATON



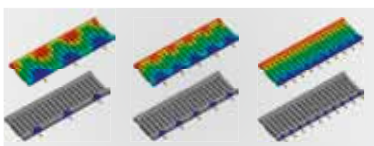
„Several **high quality synthetic materials** were tested. Finally the result was something that even exceeded our requirements.“

Prof. Dr. Jürgen Gundrum
Director of STZ IKET



„The **structure of the bottom side** of the grating was crucial to the fstability, where a lot of time was invested.“

Prof. Dr. Ing. Bernhard Rief
STZ IKET



„How many direct gatings?
The results of the **Mould-Flow-Study** showed us how to construct the injection-moulding-tool in the best way.“

Dipl. Ing. Karl Radimersky
Chief Construction HAURATON



„Only the **loading and hydraulic tests** really proved that all functions and parameter were 100% fulfilled.“

Dr. Bernd Schiller
Head of Research & Development HAURATON

RECYFIX®PRO

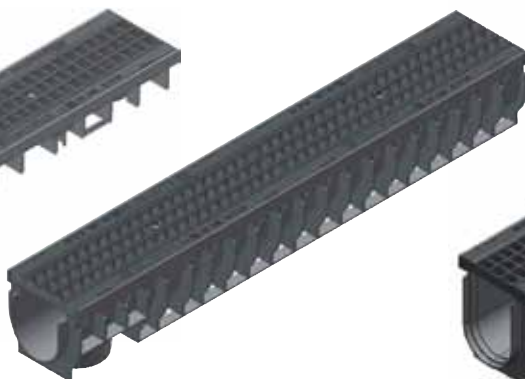
INNOVATIVE DRAINAGE SYSTEM MADE OF PE-PP AND PA-GF

FOR DOMESTIC AND COMMERCIAL APPLICATIONS UP TO LOADING CLASS C 250

RECYFIX®PRO 100 - combi article, class B 125



Type 75 with GUGI-Grating made of PA-GF, MW 20/30, black, locked



Type 01 with GUGI-Grating made of PA-GF, MW 20/30, black, locked



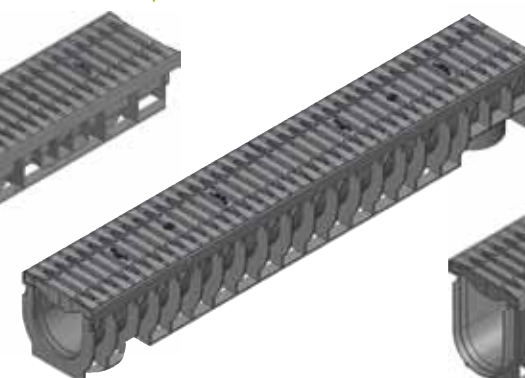
Type 010 with GUGI-Grating made of PA-GF, MW 20/30, black, locked

| | Length mm | Width mm | Height mm | Weight kg | Unit / palette | Article No. |
|---|--------------|-------------|--------------|--------------|-------------------|----------------|
| Type 75 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 1000 | 160 | 75 | 2,9 | 84 | 47032 |
| Type 95 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 1000 | 160 | 95 | 3,0 | - | 47033 |
| Type 01 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 1000 | 160 | 151 | 4,1 | 49 | 47035 |
| Type 0105 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 500 | 160 | 151 | 2,1 | 98 | 47036 |
| Type 010 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 1000 | 160 | 201 | 4,7 | 35 | 47040 |
| Type 01005 with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 500 | 160 | 201 | 2,5 | 70 | 47041 |

RECYFIX®PRO 100 - combi article, class C 250



Type 95 with FIBRETEC Slotted grating, SW 9 mm, black, locked



Type 01 with FIBRETEC Slotted grating, SW 9 mm, black, locked



Type 010 with FIBRETEC Slotted grating, SW 9 mm, black, locked



| | Length mm | Width mm | Height mm | Weight kg | Unit / palette | Article No. |
|--|--------------|-------------|--------------|--------------|-------------------|----------------|
| Type 75 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 1000 | 160 | 75 | 2,9 | 84 | 47062 |
| Type 95 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 1000 | 160 | 95 | 3,3 | - | 47063 |
| Type 01 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 1000 | 160 | 151 | 4,1 | 49 | 47055 |
| Type 0105 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 500 | 160 | 151 | 2,1 | 98 | 47056 |
| Type 010 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 1000 | 160 | 201 | 4,6 | 35 | 47060 |
| Type 01005 with FIBRETEC Slotted grating, SW 9 mm, black, locked | 500 | 160 | 201 | 2,3 | 70 | 47061 |

RECYFIX®PRO 100 - accessories



Trash box with GUGI-Grating made of PA-GF, MW 20/30, black, locked



Trash box with FIBRETEC Slotted grating, SW 9 mm, black, locked



End cap closed, made of PE-PP, for type 75



End cap combined, made of PE-PP, with outlet DN 100, for type 01



End cap combined, made of PE-PP, with outlet DN 70/100, for type 010

| | Length mm | Width mm | Height mm | Weight kg | Unit / palette | Article No. |
|--|--------------|-------------|--------------|--------------|-------------------|----------------|
| Trash box with GUGI-Grating made of PA-GF, MW 20/30, black, locked | 500 | 160 | 438 | 4,9 | 28 | 47053 |
| Trash box with FIBRETEC Slotted grating, SW 9 mm, black, locked | 500 | 160 | 438 | 5,0 | 28 | 47054 |
| End cap closed, made of PE-PP, for type 75 | - | - | - | 0,03 | - | 47097 |
| End cap closed, made of PE-PP, for type 95* | - | - | - | 0,04 | - | 47098 |
| End cap combined, made of PE-PP, with outlet DN 100, for type 01 | - | - | - | 0,10 | - | 47091 |
| End cap combined, made of PE-PP, with outlet DN 70/100, for type 010 | - | - | - | 0,11 | - | 47093 |

* available from middle of September 2010

RECYFIX® PLUS

STABLE DRAINAGE.

WITH EDGE PROTECTION AND ATTRACTIVE DESIGN.



AT A GLANCE

- ✓ For commercial precincts up to load class C 250 in accordance with DIN EN 1433
- ✓ Additional strength through galvanized / stainless steel frame
- ✓ Attractive appearance through visible metal edge



RECYFIX® PLUS

STABLE DRAINAGE.

WITH EDGE PROTECTION AND ATTRACTIVE DESIGN.

THE ECOLOGICAL INNOVATION

RECYFIX PLUS channels consist of 100 % pure recycled polyolefine plastics. They can be integrated into the ecological material cycle and are 100 % recyclable. Green light for the environment! Because of their low weight, RECYFIX PLUS channels are easy to transport and install. At the same time, the system complies with the highest requirements regarding functionality and strength. RECYFIX PLUS channels have been developed for traffic areas exposed to high loads. An additional protection is provided by galvanised steel angle housings covering the top edges. The RECYFIX PLUS channel system is a complete system with all necessary accessories.

HIGH-TECH DEVELOPMENT

RECYFIX PLUS channels have been developed in co-operation with a well-known research institute for plastic recycling. With the help of computer simulation it was possible to create a highly rigid construction with torsion-free ribs, which weighs significantly less than conventional channels made of mineral-based materials but has good performance characteristics and durability.

RECYCLED PE-PP MATERIAL

RECYFIX PLUS channels consist of 100 % pure recycled polyolefine plastics. The material is characterised by its high chemical resistance, resistance to frost and salt, it is UV-stabilised, environmentally neutral and leakproof.

DIN EN 1433

All RECYFIX PLUS channels meet the requirements of the European standard DIN EN 1433. The products carry the CE-mark.



Installation in polygonal patterns



Parking area

A COMPREHENSIVE SYSTEM

RECYFIX PLUS channels are available in different heights and nominal widths. Canal connections are possible at the bottom, on the sides or ends. A choice of channel gratings is available to suit different surface finishes and load applications. The system is rounded off with end caps, foul air locks for vertical outlet and trash boxes with plastic mud bucket - optionally with internal foul air trap.



RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX®PLUS

STABLE DRAINAGE.

WITH EDGE PROTECTION AND ATTRACTIVE DESIGN.

RECYFIX®PLUS channels meet the requirements of DIN EN 1433 and are suitable for the following loading capacities:



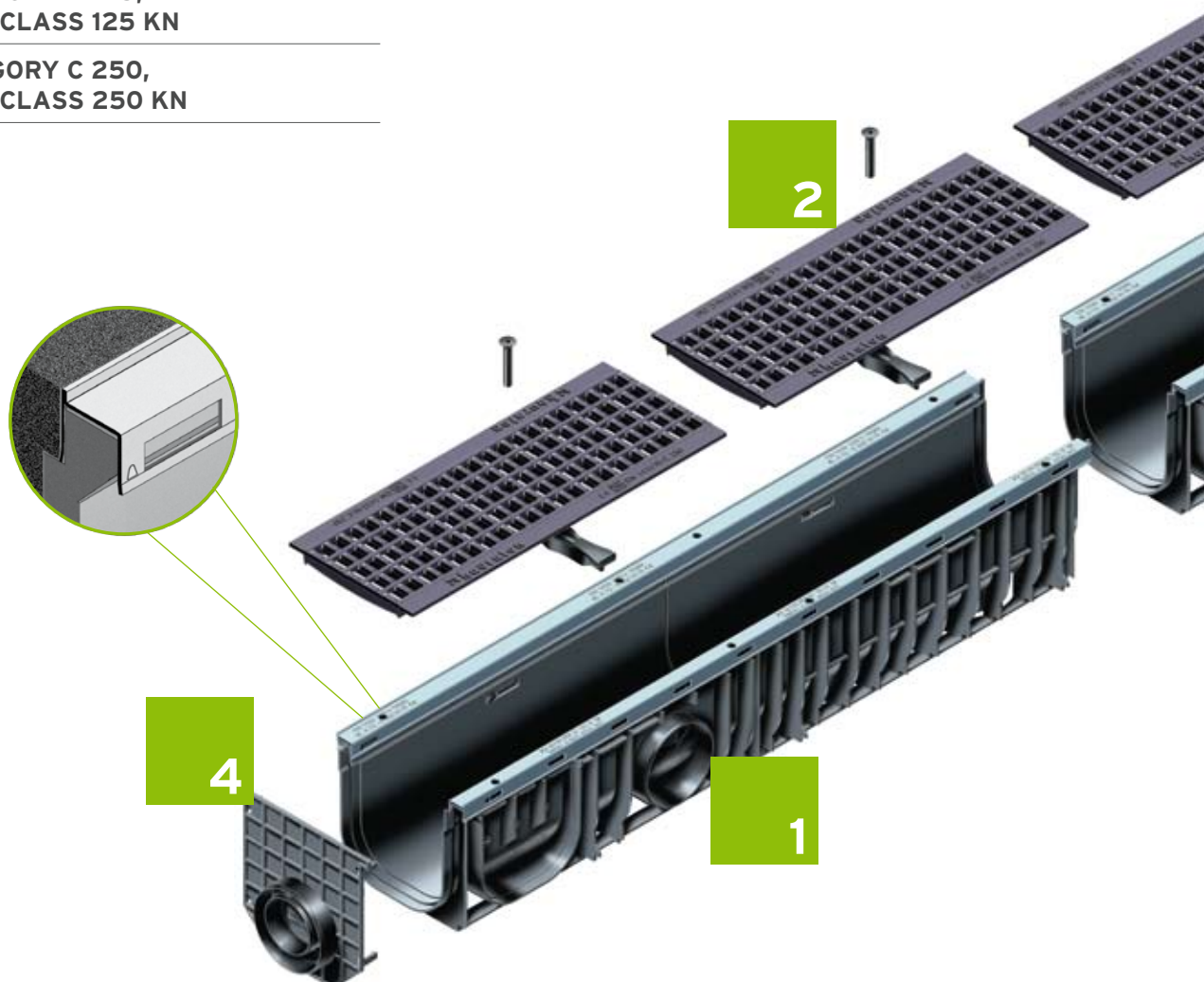
**CATEGORY A 15,
LOAD CLASS 15 KN**



**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**



GRATING OPTIONS FOR RECYFIX PLUS CHANNELS

GUGI-Ductile
iron mesh
gratings*



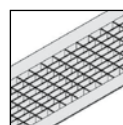
Ductile iron
gratings*



Slotted
gratings*



Steel
gratings*



**Loading capacities as per DIN EN 1433
suitable for passenger car traffic**

B 125

100

100

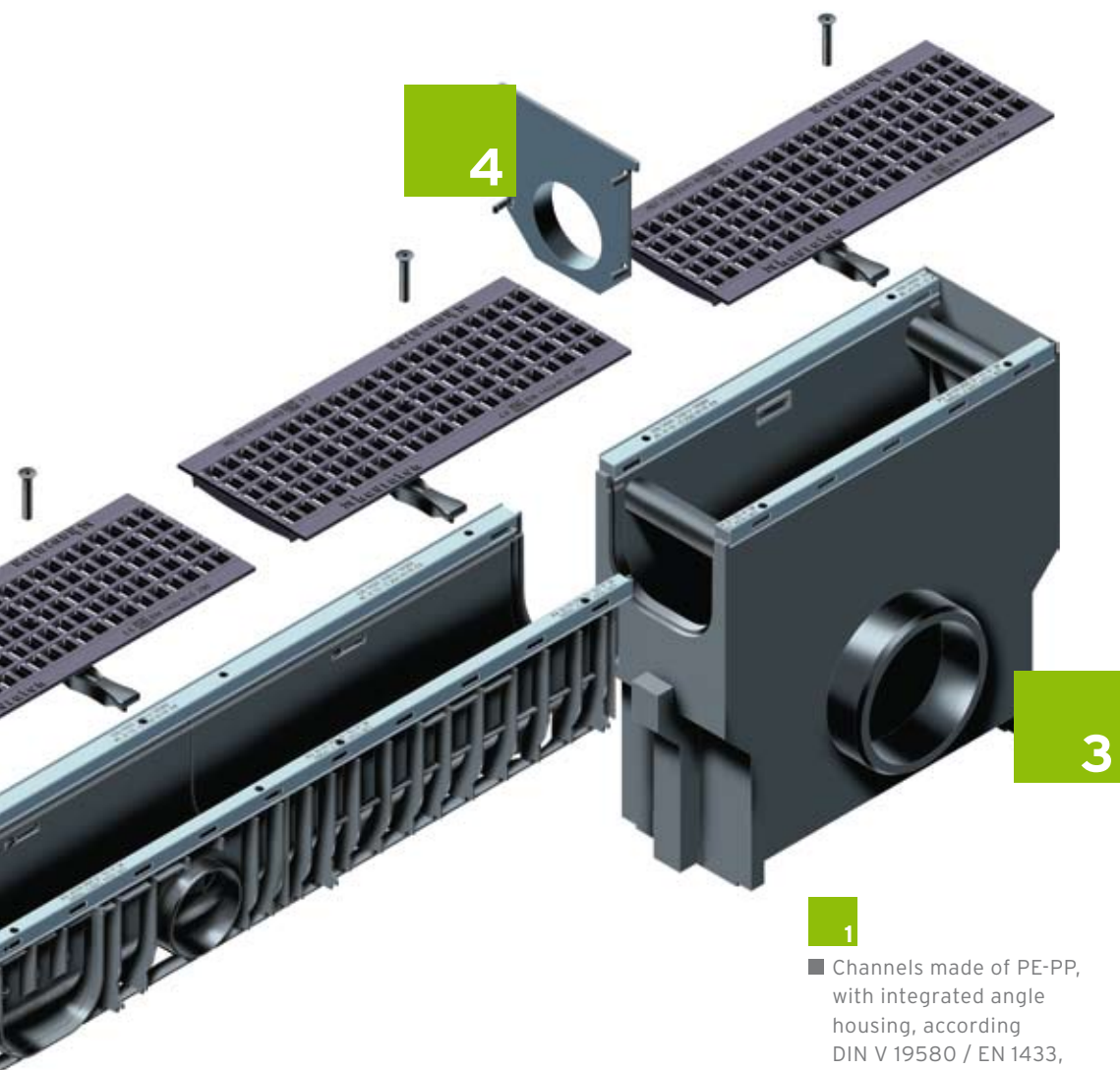
100, 150, 200

C 250

100, 150,
200, 300

100, 200

* nominal width



1

■ Channels made of PE-PP, with integrated angle housing, according DIN V 19580 / EN 1433, CE-conform, with tongue and groove connection for exact installation

2

■ numerous grating options, for example GUGI-Ductile iron mesh gratings

3

■ Trash box with pipe-connection possibilities

4

■ End caps with and without outlets

SAFETY IN PEDESTRIAN ZONES

RECYFIX PLUS channels with their great choice of gratings are also used in pedestrian zones, on market squares and other public areas. To provide greater safety for pedestrians, gratings with narrow mesh sizes have been developed.



RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

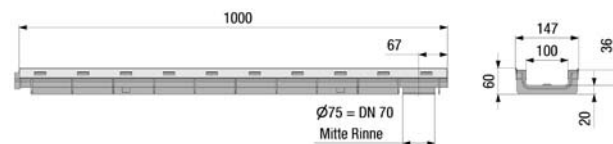
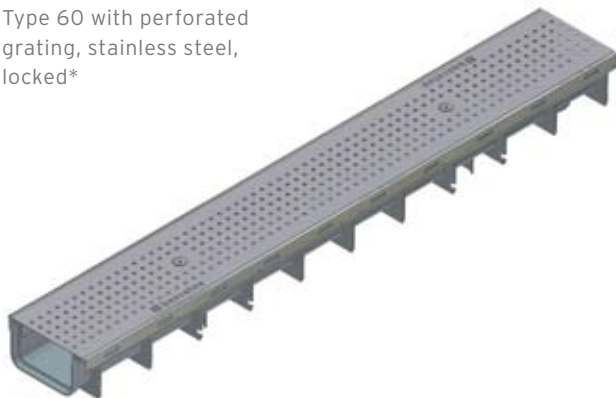
RECYFIX®
STREIF

LINEFIX®

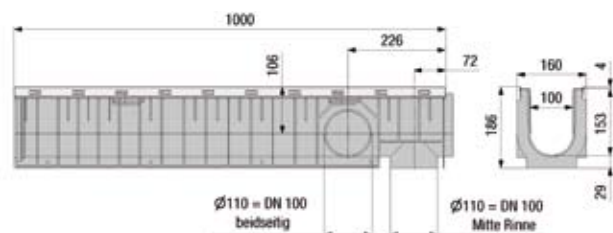
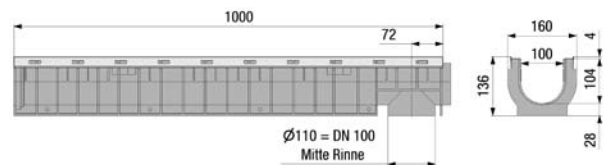
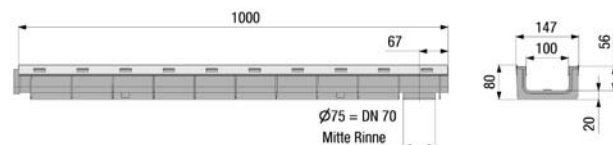
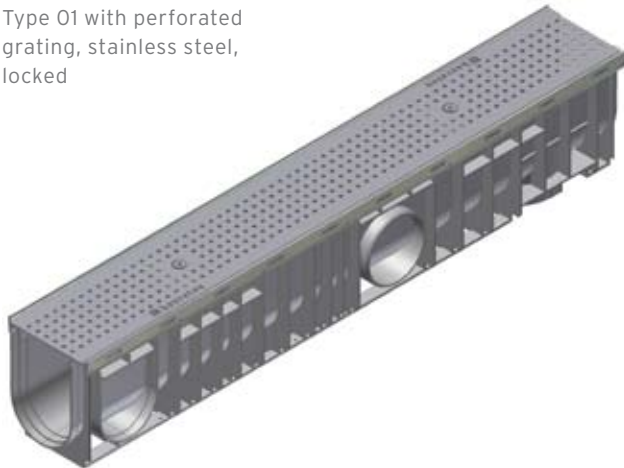
RECYFIX®PLUS 100

RECYFIX®PLUS 100 - Combi article, class A 15

Type 60 with perforated grating, stainless steel, locked*



Type 01 with perforated grating, stainless steel, locked

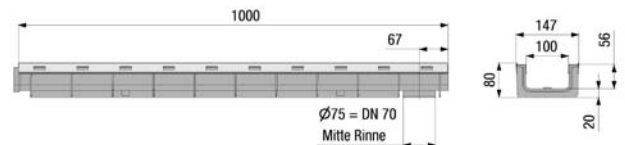
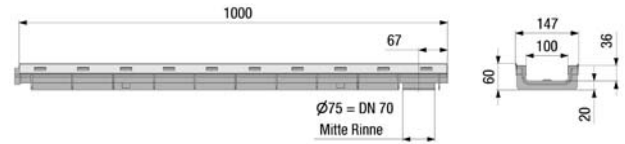


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|---|---|--------------|---------------------------|-----------------------------------|
| Type 60 with perforated grating, stainless steel, locked* | 1000 | 147 | 60 | 25 | 161 | 3,9 | - | 41444 |
| Type 80 with perforated grating, stainless steel, locked* | 1000 | 147 | 80 | 45 | 161 | 4,1 | - | 41446 |
| Type 01 with perforated grating, stainless steel, locked | 1000 | 160 | 135 | 92 | 161 | 5,5 | - | 41440 |
| Type 010 with perforated grating, stainless steel, locked | 1000 | 160 | 185 | 142 | 161 | 6,4 | - | 41442 |
| Type 0105 with perforated grating, stainless steel, locked | 500 | 160 | 135 | 92 | 161 | 2,8 | - | 41447 |
| Type 01005 with perforated grating, stainless steel, locked | 500 | 160 | 185 | 142 | 161 | 3,2 | - | 41448 |

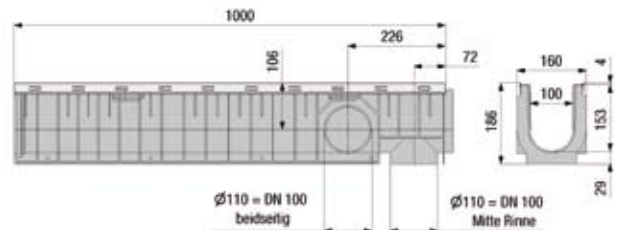
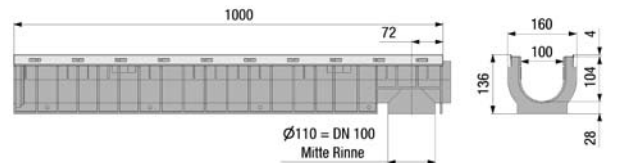
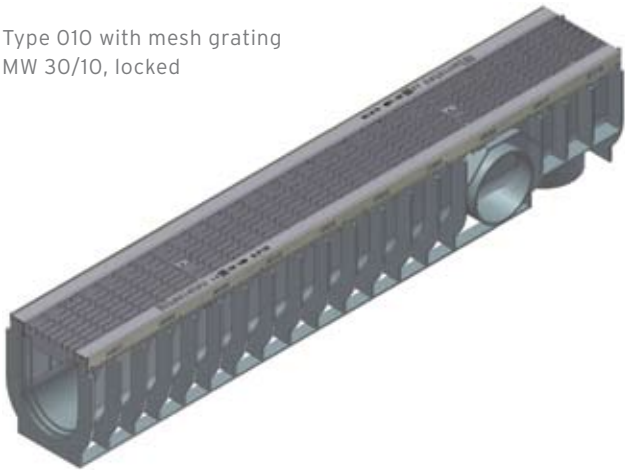
RECYFIX®PLUS 100

RECYFIX®PLUS 100 - Combi article, car traffic

Type 60 with slotted
grating SW 75/9, locked*



Type 010 with mesh grating
MW 30/10, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|---|---|--------------|---------------------------|-----------------------------------|
| Type 60 with slotted grating SW 75/9, locked* | 1000 | 147 | 60 | 25 | 280 | 4,0 | 40332 | 41404 |
| Type 80 with slotted grating SW 75/9, locked* | 1000 | 147 | 80 | 45 | 280 | 4,1 | 40337 | 41406 |
| Type 60 with mesh grating MW 30/10, locked* | 1000 | 147 | 60 | 25 | 650 | 5,2 | 40333 | 41414 |
| Type 80 with mesh grating MW 30/10, locked* | 1000 | 147 | 80 | 45 | 650 | 5,3 | 40338 | 41416 |
| Type 01 with slotted grating SW 75/9, locked | 1000 | 160 | 135 | 92 | 280 | 5,3 | 40344 | 41400 |
| Type 0105 with slotted grating SW 75/9, locked | 500 | 160 | 135 | 92 | 280 | 2,8 | 40347 | 41407 |
| Type 010 with slotted grating SW 75/9, locked | 1000 | 160 | 185 | 142 | 280 | 6,3 | 40339 | 41402 |
| Type 01005 with slotted grating SW 75/9, locked | 500 | 160 | 185 | 142 | 280 | 3,2 | 40341 | 41408 |
| Type 01 with mesh grating MW 30/10, locked | 1000 | 160 | 135 | 92 | 650 | 6,5 | 40346 | 41410 |
| Type 0105 with mesh grating MW 30/10, locked | 500 | 160 | 135 | 92 | 650 | 3,4 | 40348 | 41417 |
| Type 010 with mesh grating MW 30/10, locked | 1000 | 160 | 185 | 142 | 650 | 7,5 | 40340 | 41412 |
| Type 01005 with mesh grating MW 30/10, locked | 500 | 160 | 185 | 142 | 650 | 3,8 | 40343 | 41418 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

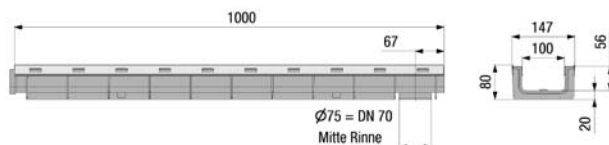
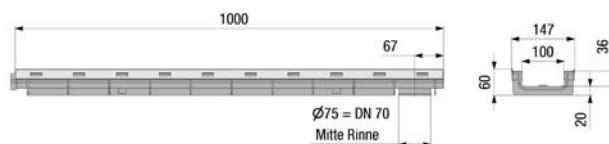
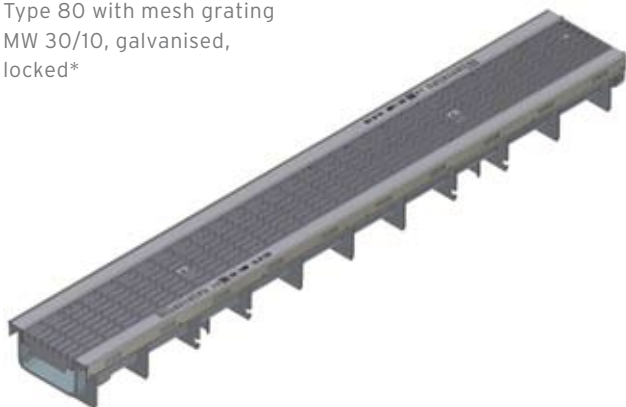
RECYFIX®
STREIF

LINEFIX®

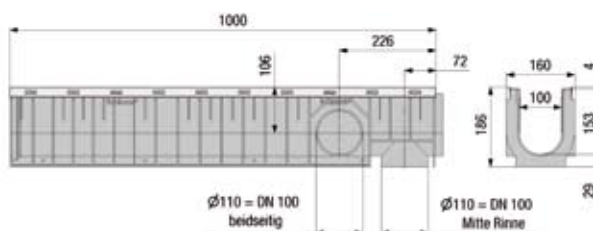
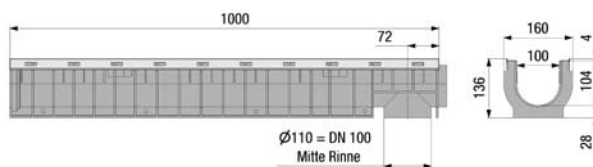
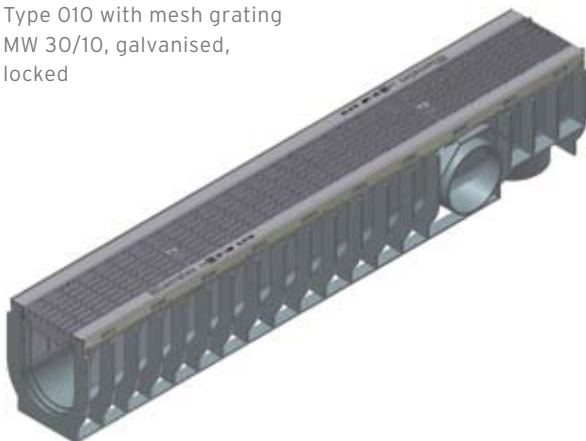
RECYFIX®PLUS 100

RECYFIX®PLUS 100 - Combi article, class B 125

Type 80 with mesh grating
MW 30/10, galvanised,
locked*



Type 010 with mesh grating
MW 30/10, galvanised,
locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 60 with mesh grating MW 30/10, galvanised, locked* | 1000 | 147 | 60 | 25 | 650 | 6,0 | 41424 |
| Type 80 with mesh grating MW 30/10, galvanised, locked* | 1000 | 147 | 80 | 45 | 650 | 6,2 | 41426 |
| Type 01 with mesh grating MW 30/10, galvanised, locked | 1000 | 160 | 135 | 92 | 650 | 7,5 | 41420 |
| Type 0105 with mesh grating MW 30/10, galvanised, locked | 500 | 160 | 135 | 92 | 650 | 4,0 | 41427 |
| Type 010 with mesh grating MW 30/10, galvanised, locked | 1000 | 160 | 185 | 142 | 650 | 8,5 | 41422 |
| Type 01005 with mesh grating MW 30/10, galvanised, locked | 500 | 160 | 185 | 142 | 650 | 4,4 | 41428 |

* For common frequented areas we recommend FASERFIX SUPER KS channels, flat (catalogue CIVILS).

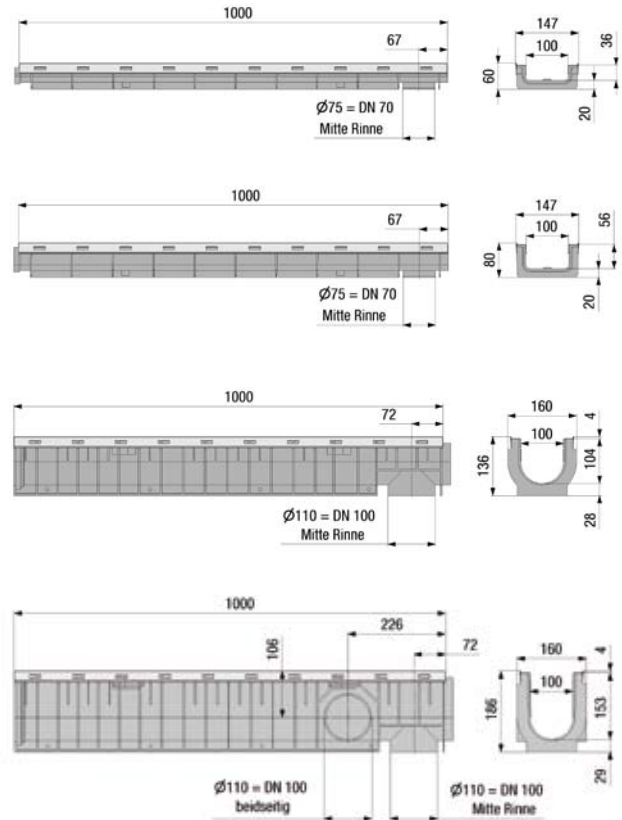
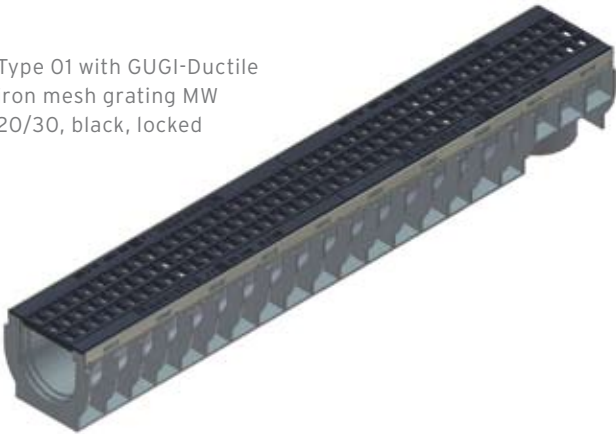
RECYFIX®PLUS 100

RECYFIX®PLUS 100 - Combi article, class C 250

Type 60 with GUGI-Ductile
iron mesh grating MW
20/30, black, locked*



Type 01 with GUGI-Ductile
iron mesh grating MW
20/30, black, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--|--------------|----------------|
| Type 60 with GUGI-Ductile iron mesh grating MW 20/30, black, locked* | 1000 | 147 | 60 | 25 | 444 | 7,4 | 40359 |
| Type 80 with GUGI-Ductile iron mesh grating MW 20/30, black, locked* | 1000 | 147 | 80 | 45 | 444 | 7,4 | 40364 |
| Type 60 with ductile iron grating SW 80/14, black, locked* | 1000 | 147 | 60 | 25 | 450 | 7,8 | 40362 |
| Type 60 with ductile iron grating SW 80/6, black, locked* | 1000 | 147 | 60 | 25 | 290 | 8,6 | 40372 |
| Type 80 with ductile iron grating SW 80/14, black, locked* | 1000 | 147 | 80 | 45 | 450 | 8,0 | 40367 |
| Type 80 with ductile iron grating SW 80/6, black, locked* | 1000 | 147 | 80 | 45 | 290 | 8,8 | 40377 |
| Type 01 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 160 | 135 | 92 | 444 | 8,6 | 40360 |
| Type 0105 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 160 | 135 | 92 | 444 | 7,4 | 40365 |
| Type 010 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 160 | 185 | 142 | 444 | 9,5 | 40380 |
| Type 0105 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 160 | 185 | 142 | 444 | 7,8 | 40385 |
| Type 01 with ductile iron grating SW 80/14, locked | 1000 | 160 | 135 | 92 | 450 | 9,0 | 40361 |
| Type 01 with ductile iron grating SW 80/6, locked | 1000 | 160 | 135 | 92 | 290 | 10,0 | 40363 |
| Type 0105 with ductile iron grating SW 80/14, locked | 500 | 160 | 135 | 92 | 450 | 7,6 | 40366 |
| Type 0105 with ductile iron grating SW 80/6, locked | 500 | 160 | 135 | 92 | 290 | 8,1 | 40368 |
| Type 010 with ductile iron grating SW 80/14, locked | 1000 | 160 | 185 | 142 | 450 | 9,9 | 40381 |
| Type 010 with ductile iron grating SW 80/6, locked | 1000 | 160 | 185 | 142 | 290 | 10,9 | 40383 |
| Type 0105 with ductile iron grating SW 80/14, locked | 500 | 160 | 185 | 142 | 450 | 8,0 | 40386 |
| Type 0105 with ductile iron grating SW 80/6, locked | 500 | 160 | 185 | 142 | 290 | 8,5 | 40388 |

* For common frequented areas we recommend FASERFIX SUPER KS channels, flat (catalogue CIVILS).

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX® PLUS 100

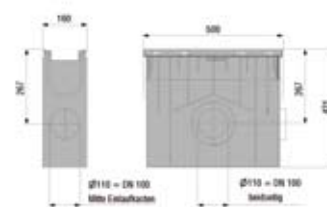
RECYFIX® PLUS 100 - Accessories



Trash box with plastic bucket, with GUGI-Ductile iron mesh grating MW 20/30, black, class C 250, locked



Trash box with plastic bucket, with ductile iron grating SW 80/14, black, class C 250, locked



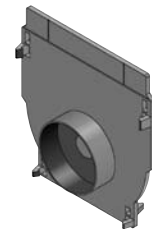
Foul air trap, vertical, DN 100



Foul air trap DN 100, inside



End cap combined made of PE-PP with outlet DN 70, type 01



End cap combined made of PE-PP with outlet DN 70, type 010

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| Trash box with plastic bucket, with slotted grating SW 75/6, trafficable, locked | 500 | 160 | 419 | 4,8 | 40353 | 41409 |
| Trash box with plastic backed, with slotted grating SW 75/6, trafficable, locked | 500 | 160 | 419 | 5,4 | 40354 | 41419 |
| Trash box with plastic-bucket, with mesh grating MW 30/10, class B 125, locked | 500 | 160 | 419 | 6,2 | 41429 | - |
| Trash box with plastic bucket, with GUGI-Ductile iron mesh grating MW 20/30, black, class C 250, locked | 500 | 160 | 419 | 6,6 | 40358 | - |
| Trash box with plastic bucket, with ductile iron grating SW 80/14, black, class C 250, locked | 500 | 160 | 419 | 6,8 | 40356 | - |
| Trash box with plastic bucket, with ductile iron grating SW 80/6, black, class C 250, locked | 500 | 160 | 419 | 7,3 | 40357 | - |
| Trash box with plastic-bucket, with perforated grating, stainless steel, car-traffic, locked | 500 | 160 | 419 | 5,1 | - | 41449 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 | - |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 | - |
| End cap closed, made of PE-PP, for type 60 | - | 147 | 60 | - | 40284 | - |
| End cap closed, made of PE-PP, for Type 80 | - | 147 | 80 | - | 40291 | - |
| End cap combined made of PE-PP with outlet DN 70, type 01 | - | 160 | 135 | 0,1 | 40281 | - |
| End cap combined made of PE-PP with outlet DN 70, type 010 | - | 160 | 185 | 0,2 | 40283 | - |
| Drilling of connecting holes DN 100 | - | - | - | - | 972 | - |
| Cutting to length of NW 100 | - | - | - | - | 990 | - |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 | - |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 | - |

The quality of the stainless steel material is according CNS 1.4301.

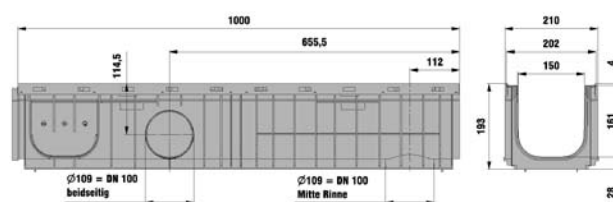
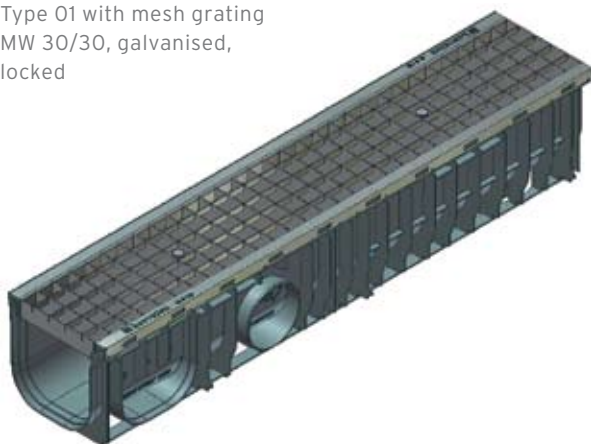
RECYFIX®PLUS 100

| LINEFIX® | RECYFIX® STREIF | RECYFIX® GREEN STANDARD | RECYFIX® GREEN SUPER | DACHFIX® | RECYFIX®POINT FASERFIX®POINT | FASERFIX® STANDARD | SLOTTED CAHNNELS | RECYFIX® STANDARD | RECYFIX® PLUS |
|----------|--------------------|----------------------------|-------------------------|----------|---------------------------------|-----------------------|---------------------|----------------------|------------------|
|----------|--------------------|----------------------------|-------------------------|----------|---------------------------------|-----------------------|---------------------|----------------------|------------------|

RECYFIX®PLUS 150

RECYFIX®PLUS 150 - Combi article, class B 125

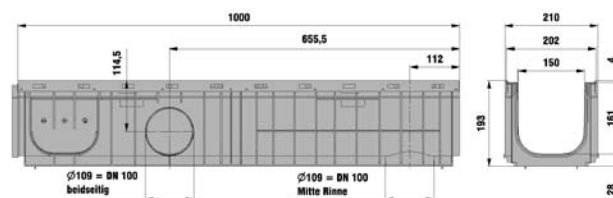
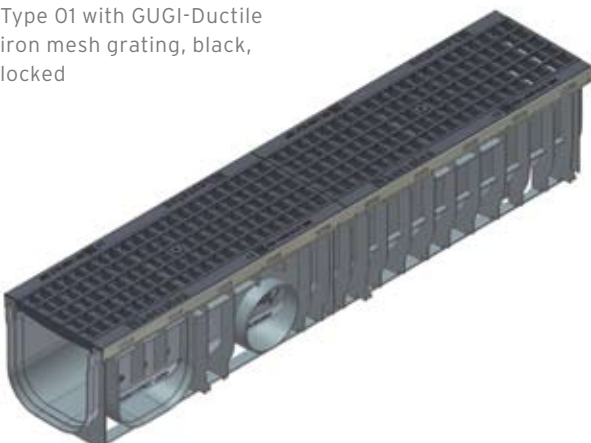
Type 01 with mesh grating
MW 30/30, galvanised,
locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 01 with mesh grating MW 30/30, galvanised, locked | 1000 | 210 | 192 | 225 | 1081 | 7,8 | 41071 |
| Type 0105 with mesh grating MW 30/30, galvanised, locked | 500 | 210 | 192 | 225 | 1081 | 3,9 | 41046 |
| Type 01 with mesh grating MW 30/10, galvanised, locked | 1000 | 210 | 192 | 225 | 1098 | 8,8 | 41077 |
| Type 0105 with mesh grating MW 30/10, galvanised, locked | 500 | 210 | 192 | 225 | 1098 | 2,9 | 41048 |

RECYFIX®PLUS 150 - Combi article, class C 250

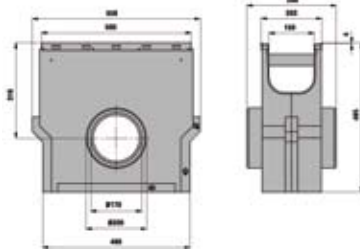
Type 01 with GUGI-Ductile
iron mesh grating, black,
locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 01 with GUGI-Ductile iron mesh grating, black, locked | 1000 | 210 | 192 | 225 | 745 | 13,8 | 41075 |
| Type 0105 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 210 | 192 | 225 | 745 | 6,1 | 41049 |

RECYFIX®PLUS 150

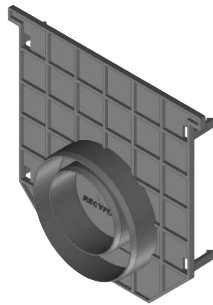
RECYFIX®PLUS 150 - Accessories



Trash box with galvanised bucket, with mesh grating MW 30/10, galvanised, class B 125, locked



Foul air trap, vertical, DN 100



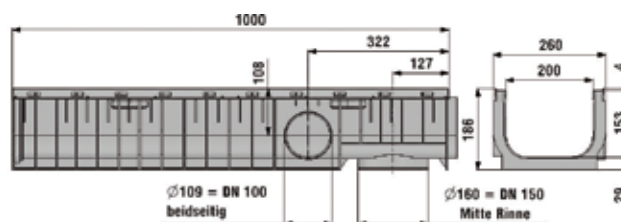
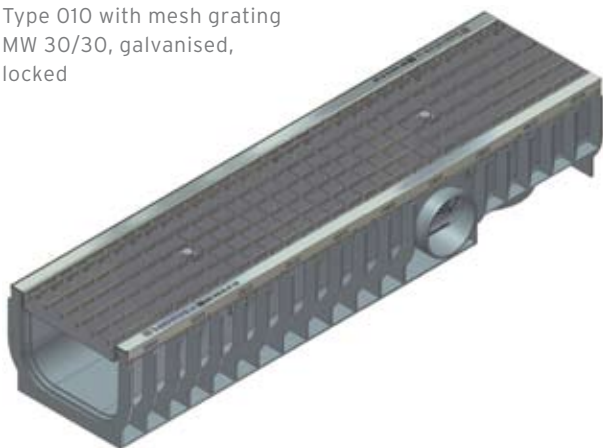
End cap combined made of PE-PP with outlet DN 70/100, Type 01

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Trash box with galvanised bucket, with mesh grating MW 30/30, galvanised, class B 125, locked | 500 | 202 | 496 | 18,6 | 41054 |
| Trash box with galvanised bucket, with mesh grating MW 30/10, galvanised, class B 125, locked | 500 | 202 | 496 | 18,6 | 41056 |
| Trash box with galvanised bucket, with GUGI-Ductile iron mesh grating MW 20/30, galvanised, class C250 locked | 500 | 202 | 496 | 20,7 | 41053 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| End cap combined made of PE-PP with outlet DN 70/100, Type 01 | - | 210 | 202 | 0,1 | 40191 |
| Drilling of connecting holes DN 150 | - | - | - | - | 973 |
| Cutting to length of NW 150 | - | - | - | - | 991 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

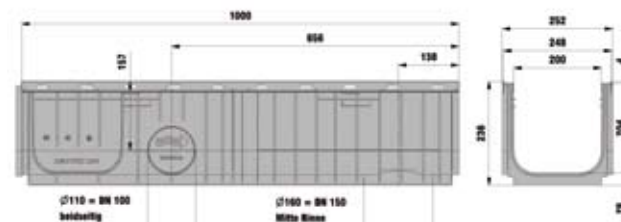
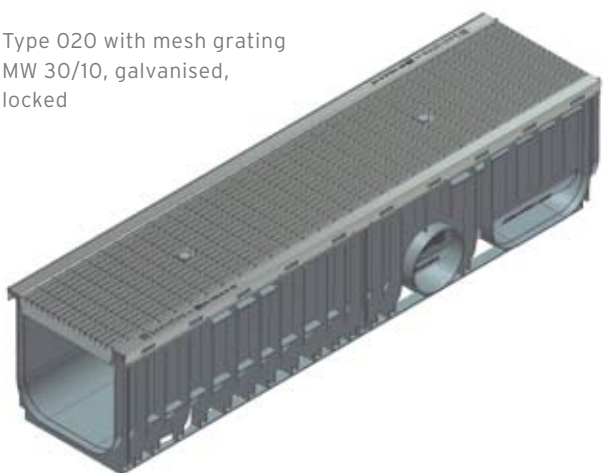
RECYFIX®PLUS 200

RECYFIX®PLUS 200 - Combi article, class B 125

Type 010 with mesh grating
MW 30/30, galvanised,
locked



Type 020 with mesh grating
MW 30/10, galvanised,
locked

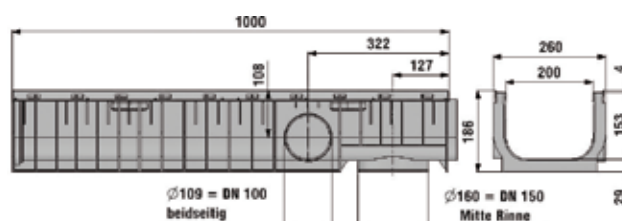
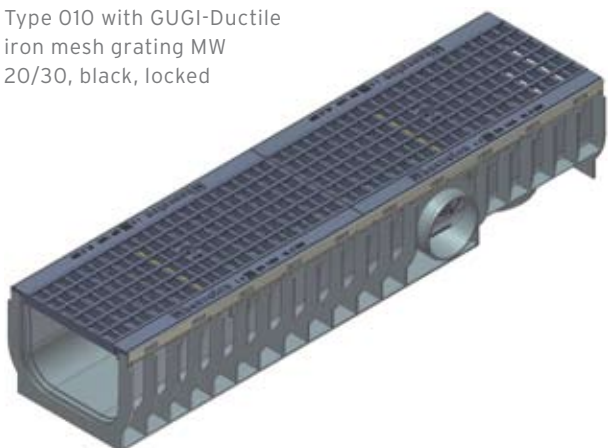


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with mesh grating MW 30/30, galvanised, locked | 1000 | 258 | 186 | 290 | 1620 | 10,3 | 40771 |
| Type 020 with mesh grating MW 30/30, galvanised, locked | 1000 | 252 | 236 | 366 | 1620 | 11,5 | 40773 |
| Type 010 with mesh grating MW 30/10, galvanised, locked | 1000 | 258 | 186 | 290 | 1442 | 12,2 | 40785 |
| Type 020 with mesh grating MW 30/10, galvanised, locked | 1000 | 252 | 236 | 366 | 1442 | 12,7 | 40786 |

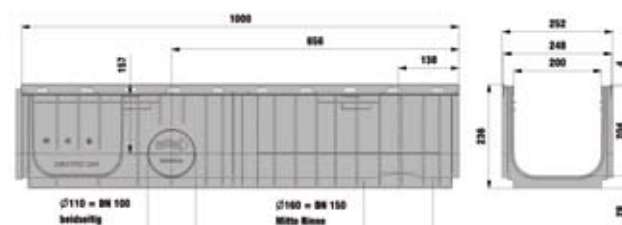
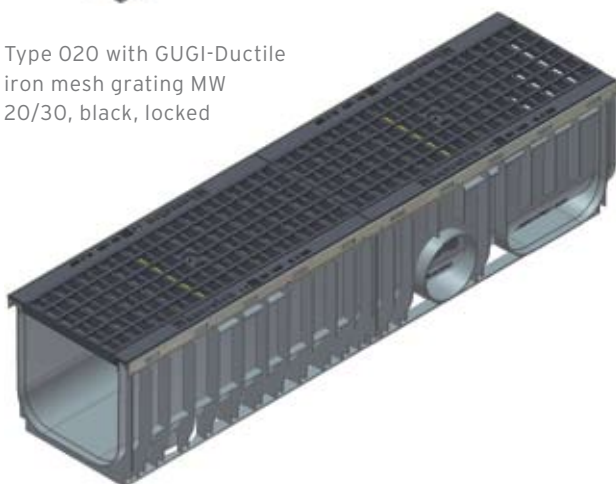
RECYFIX®PLUS 200

RECYFIX®PLUS 200 - Combi article, class C 250

Type 010 with GUGI-Ductile
iron mesh grating MW
20/30, black, locked



Type 020 with GUGI-Ductile
iron mesh grating MW
20/30, black, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 258 | 186 | 290 | 825 | 16,6 | 40770 |
| Type 020 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 252 | 236 | 366 | 825 | 17,2 | 40774 |
| Type 010 with Ductile iron grating 2 x 85/20, black, locked | 1000 | 258 | 186 | 290 | 822 | 16,2 | 40760 |
| Type 020 with Ductile iron grating 2 x 85/20, black, locked | 1000 | 252 | 236 | 366 | 822 | 16,8 | 40761 |

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

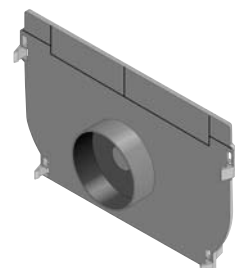
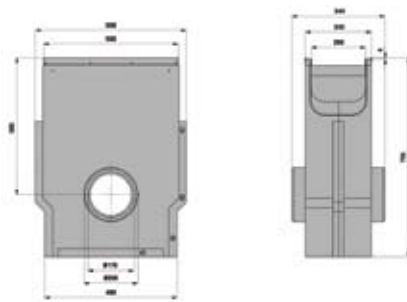
LINEFIX®

RECYFIX®PLUS 200

RECYFIX®PLUS 200 - Accessories



Trash box with ductile iron grating SW 2 x 85/20, black, cl. C 250, locked



End cap combined made of PE-PP with outlet DN 70, Type 010



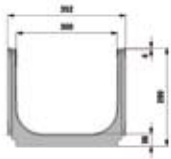
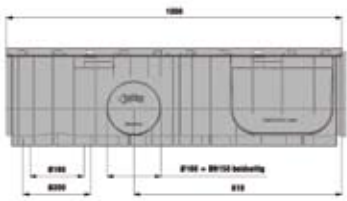
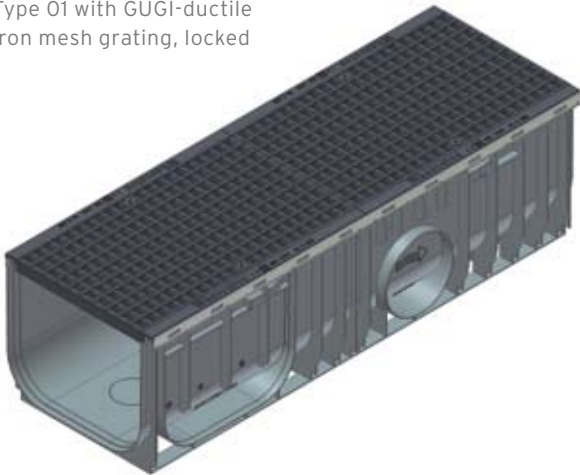
Foul air trap, vertical, DN 100

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Trash box with mesh grating MW 30/30, galvanised, cl. B 125, locked | 500 | 248 | 735 | 27,6 | 40756 |
| Trash box with mesh grating MW 30/10, galvanised, cl. B 125, locked | 500 | 248 | 735 | 29,2 | 40757 |
| Trash box with GUGI-ductile iron grating MW 20/30, black, cl. C 250, locked | 500 | 248 | 735 | 31,4 | 40753 |
| Trash box with ductile iron grating SW 2 x 85/20, black, cl. C 250, locked | 500 | 248 | 735 | 31,2 | 40754 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| End cap combined made of PE-PP with outlet DN 70, Type 010 | - | 258 | 185 | 0,2 | 40692 |
| End cap closed, Type 01 | - | 260 | 275 | 0,9 | 12081 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Cutting to length of NW 200 | - | - | - | - | 992 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

RECYFIX®PLUS 300

RECYFIX®PLUS 300 - Combi article, class C 250

Type 01 with GUGI-ductile iron mesh grating, locked

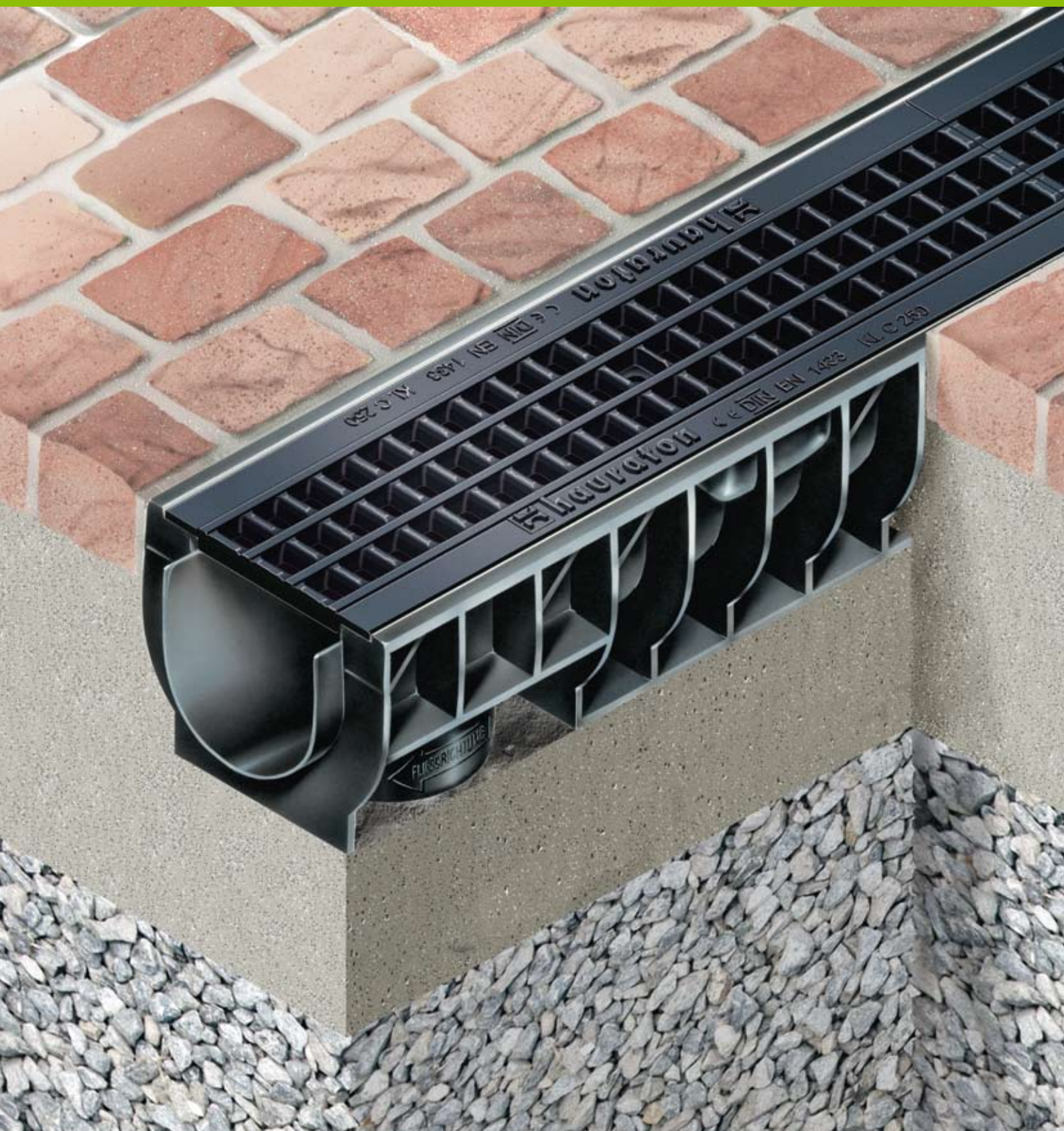


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 01 with GUGI-ductile iron mesh grating, locked | 1000 | 352 | 290 | 857 | 1327 | 30,1 | 41970 |

RECYFIX® STANDARD

ENVIRONMENTALLY FRIENDLY DRAINAGE.

FOR DOMESTIC APPLICATIONS AND PEDESTRIAN AREAS.



AT A GLANCE

- ✓ Easy and fast to install
- ✓ For domestic applications up to load class C 250
- ✓ Strength and function comply with DIN EN 1433



RECYFIX® STANDARD

ENVIRONMENTALLY FRIENDLY DRAINAGE.

FOR DOMESTIC APPLICATIONS AND PEDESTRIAN AREAS.

THE ECOLOGICAL INNOVATION

RECYFIX STANDARD channels consist of 100 % pure re-cycled polyolefin plastics. They can be integrated into the ecological material cycle and are 100 % recyclable. Green light for the environment! Because of their low weight, RECYFIX STANDARD channels are easy to transport and install. Nevertheless, in functionality and strength the system compares well with all conventional channel systems - a fact that has been proven in practice.

HIGH-TECH DEVELOPMENT

RECYFIX STANDARD channels have been developed in cooperation with a well-known research institute for plastic recycling. With the help of computer simulation it was possible to create a highly rigid construction with torsion-free ribs, which weighs significantly less than conventional channels made of mineral-based materials but has equally good performance characteristics and durability.

APPLICATION AREAS

- ☐ primarily private areas
- ☐ garage entrances
- ☐ yards
- ☐ terraces
- ☐ gardens
- ☐ parks

CHARACTERISTICS

- ☐ made of PE-PP
- ☐ up to load class C 250
- ☐ pre-formed vertical and lateral connections
- ☐ complies with DIN EN 1433

PRODUCT RANGE

- ☐ Trash boxes
- ☐ End caps
- ☐ Foul air traps
- ☐ Locking handles
- ☐ GUGI ductile iron mesh gratings
- ☐ Ductile iron gratings
- ☐ Slotted gratings
- ☐ Mesh gratings
- ☐ Perforated gratings
- ☐ Closed covers



RECYCLED PE-PP MATERIAL

RECYFIX STANDARD channels consist of 100 % pure recycled polyolefin plastics. The material is characterised by its high chemical resistance, resistance to frost and salt, it is UV-stabilised, environmentally neutral and leakproof.

DIN EN 1433

All RECYFIX STANDARD channels meet the requirements of the European standard DIN EN 1433. The products carry the CE-mark.

A COMPREHENSIVE SYSTEM

RECYFIX STANDARD channels are available in different heights and nominal widths. Canal connections are possible at the bottom, on the sides or ends. A choice of channel gratings is available to suit different surface finishes and load applications. The system is rounded off with end caps, foul air locks for vertical outlet and trash boxes with mud bucket - optionally with internal foul air trap. To achieve safety under the exposure to traffic the channel gratings are locked to the base segment.



It is very easy to cut RECYFIX STANDARD channels on site - e.g. mitred cuts, corner joints and channels cut to length.



CASTRIES, Médiathèque, France

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX® STANDARD

ENVIRONMENTALLY FRIENDLY DRAINAGE.

FOR DOMESTIC APPLICATIONS AND PEDESTRIAN AREAS.

RECYFIX STANDARD channels meet the requirements of DIN EN 1433 and are suitable for the following loading capacities:



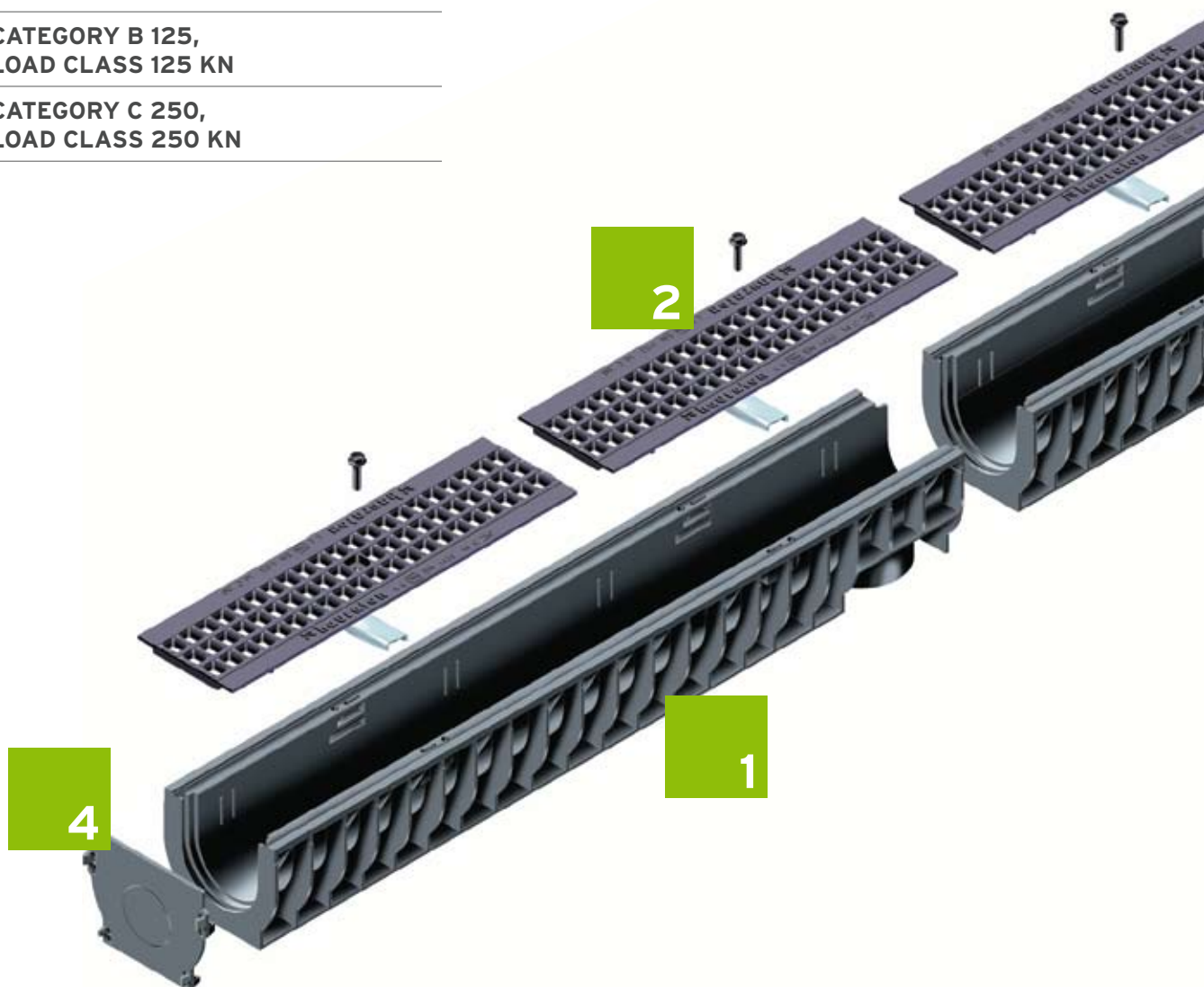
CATEGORY A 15,
LOAD CLASS 15 KN



CATEGORY B 125,
LOAD CLASS 125 KN



CATEGORY C 250,
LOAD CLASS 250 KN



GRATING OPTIONS FOR RECYFIX STANDARD CHANNELS

GUGI-Ductile
iron mesh
gratings*



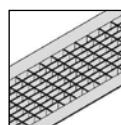
Ductile iron
gratings*



Slotted
gratings*



Steel mesh
gratings*



Loading capacities as per DIN EN 1433
suitable for passenger car traffic

B 125

100

100

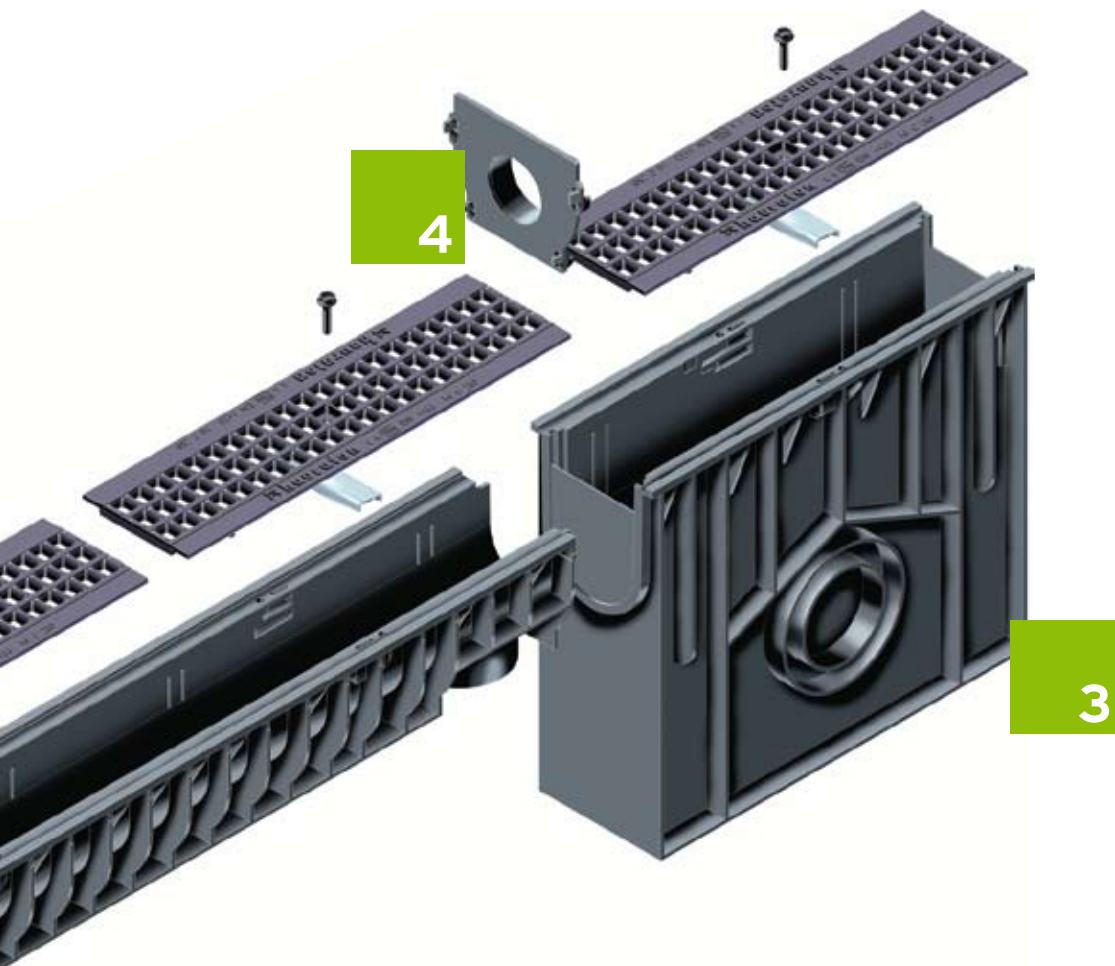
C 250

100, 150,
200, 300

100, 200

100, 150, 200

* nominal width



1

■ Channels made of PE-PP, according DIN V 19580 / EN 1433, CE-conform, with tongue and groove connection for exact installation

2

■ numerous grating options, for example GUGI-Ductile iron mesh gratings

3

■ Trash box with pipe-connection possibilities

4

■ end caps with and without outlets

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

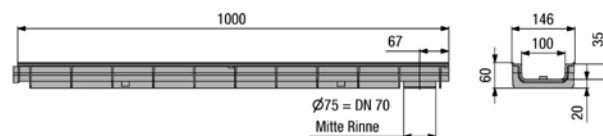
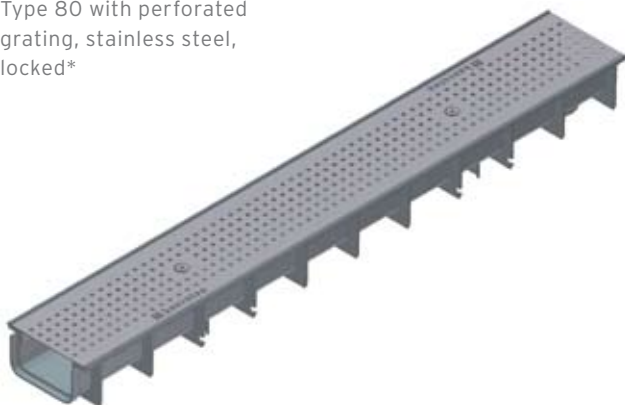
RECYFIX®
STREIF

LINEFIX®

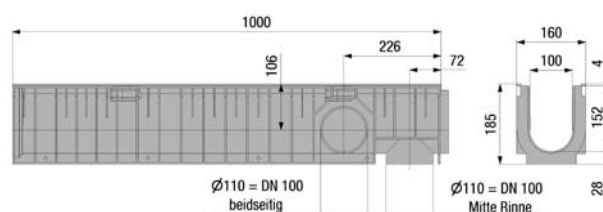
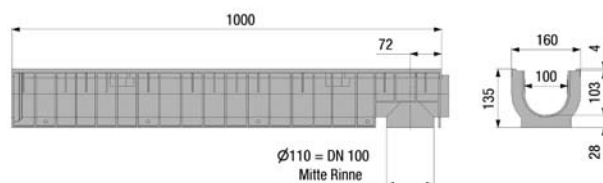
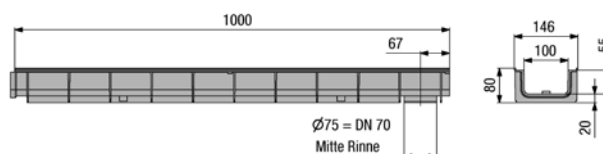
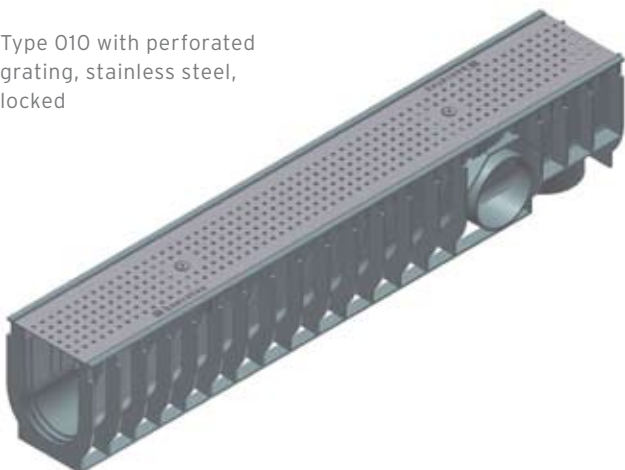
RECYFIX®STANDARD 100

RECYFIX®STANDARD 100 - Combi article, class A 15

Type 80 with perforated grating, stainless steel, locked*



Type 010 with perforated grating, stainless steel, locked

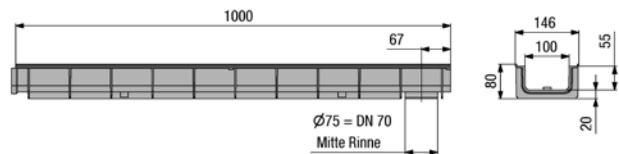
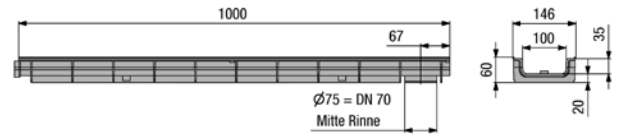


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|---|---|--------------|---------------------------|-----------------------------------|
| Type 60 with perforated grating, stainless steel, locked* | 1000 | 146 | 60 | 25 | 161 | 2,9 | - | 41244 |
| Type 80 with perforated grating, stainless steel, locked* | 1000 | 146 | 80 | 45 | 161 | 3,1 | - | 41246 |
| Type 01 with perforated grating, stainless steel, locked | 1000 | 160 | 135 | 92 | 161 | 4,5 | - | 41240 |
| Type 010 with perforated grating, stainless steel, locked | 1000 | 160 | 185 | 142 | 161 | 5,4 | - | 41242 |
| Type 0105 with perforated grating, stainless steel, locked | 500 | 160 | 135 | 92 | 161 | 2,3 | - | 41247 |
| Type 01005 with perforated grating, stainless steel, locked | 500 | 160 | 185 | 142 | 161 | 2,7 | - | 41248 |

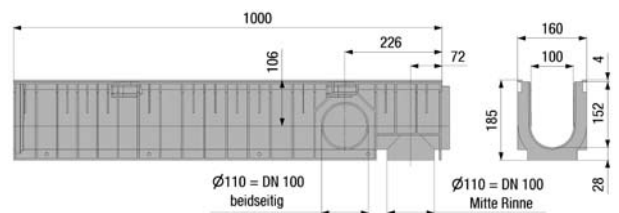
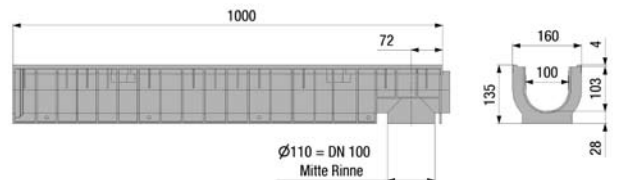
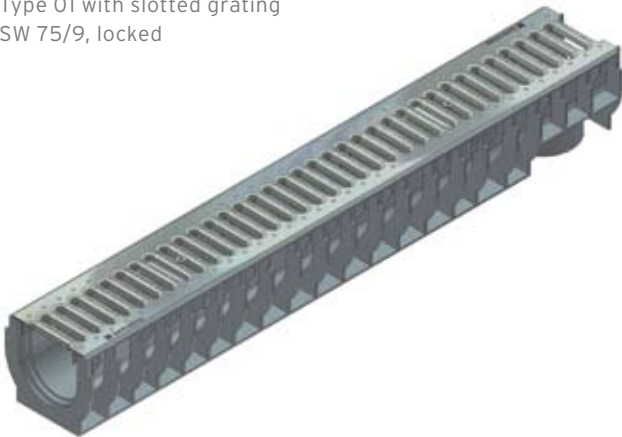
RECYFIX®STANDARD 100

RECYFIX®STANDARD 100 - Combi article, car traffic

Type 60 with slotted grating
SW 75/9, locked*



Type 01 with slotted grating
SW 75/9, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|---|---|--------------|---------------------------|-----------------------------------|
| Type 60 with slotted grating SW 75/9, locked* | 1000 | 146 | 60 | 25 | 280 | 3,0 | 40236 | 41204 |
| Type 80 with slotted grating SW 75/9, locked* | 1000 | 146 | 80 | 45 | 280 | 3,1 | 40246 | 41206 |
| Type 60 with mesh grating MW 30/10, locked* | 1000 | 146 | 60 | 25 | 650 | 4,2 | 40237 | 41214 |
| Type 80 with mesh grating MW 30/10, locked* | 1000 | 146 | 80 | 45 | 650 | 4,3 | 40247 | 41216 |
| Type 01 with slotted grating SW 75/9, locked | 1000 | 160 | 135 | 92 | 280 | 4,4 | 40231 | 41200 |
| Type 0105 with slotted grating SW 75/9, locked | 500 | 160 | 135 | 92 | 280 | 2,2 | 40261 | 41207 |
| Type 010 with slotted grating SW 75/9, locked | 1000 | 160 | 185 | 142 | 280 | 5,3 | 40296 | 41202 |
| Type 01005 with slotted grating SW 75/9, locked | 500 | 160 | 185 | 142 | 280 | 2,6 | 40266 | 41208 |
| Type 01 with mesh grating MW 30/10, locked | 1000 | 160 | 135 | 92 | 650 | 5,2 | 40232 | 41210 |
| Type 0105 with mesh grating MW 30/10, locked | 500 | 160 | 135 | 92 | 650 | 2,6 | 40262 | 41217 |
| Type 010 with mesh grating MW 30/10, locked | 1000 | 160 | 185 | 142 | 650 | 6,6 | 40297 | 41212 |
| Type 01005 with mesh grating MW 30/10, locked | 500 | 160 | 185 | 142 | 650 | 3,2 | 40267 | 41218 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CAHNNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

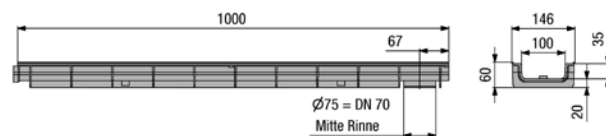
RECYFIX®
STREIF

LINEFIX®

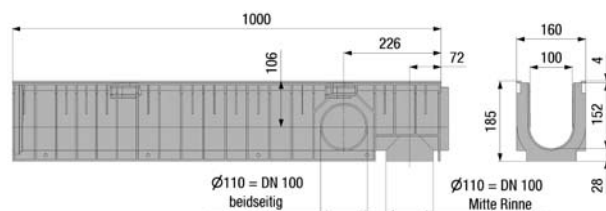
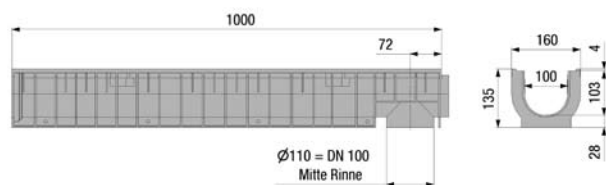
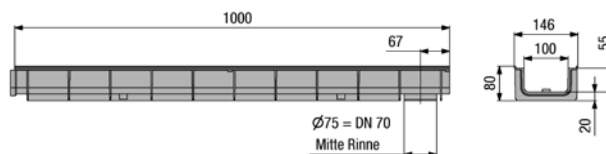
RECYFIX®STANDARD 100

RECYFIX®STANDARD 100 - Combi article, class B 125

Type 80 with mesh grating
MW 30/10, galvanised,
locked*



Type 010 with mesh grating
MW 30/10, galvanised,
locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 60 with mesh grating MW 30/10, galvanised, locked* | 1000 | 146 | 60 | 25 | 650 | 5,0 | 41224 |
| Type 80 with mesh grating MW 30/10, galvanised, locked* | 1000 | 146 | 80 | 45 | 650 | 5,1 | 41226 |
| Type 01 with mesh grating MW 30/10, galvanised, locked | 1000 | 160 | 135 | 92 | 650 | 5,2 | 41220 |
| Type 0105 with mesh grating MW 30/10, galvanised, locked | 500 | 160 | 135 | 92 | 650 | 3,4 | 41227 |
| Type 010 with mesh grating MW 30/10, galvanised, locked | 1000 | 160 | 185 | 142 | 650 | 6,6 | 41222 |
| Type 01005 with mesh grating MW 30/10, galvanised, locked | 500 | 160 | 185 | 142 | 650 | 3,8 | 41228 |

* For common frequented areas we recommend FASERFIX SUPER KS channels, flat (catalogue CIVILS).

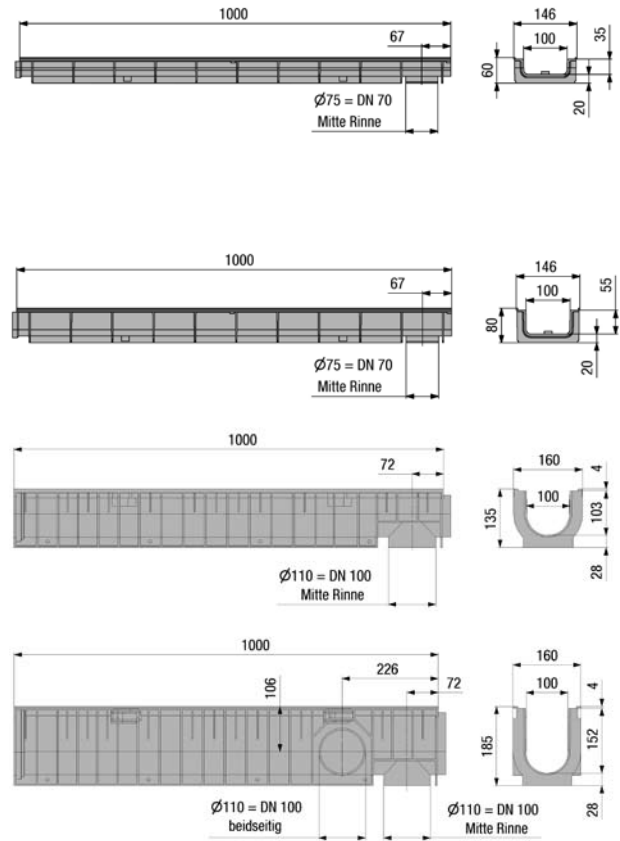
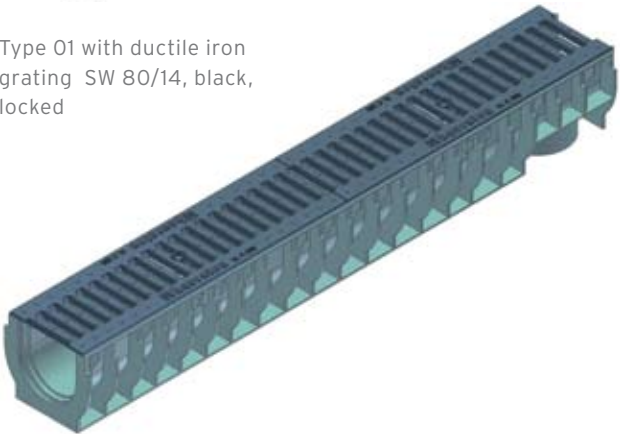
RECYFIX® STANDARD 100

RECYFIX® STANDARD 100 - Combi article, class C 250

Type 80 with GUGI-Ductile iron mesh grating MW 20/30, black, locked*



Type 01 with ductile iron grating SW 80/14, black, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|--|--------------|----------------|
| Type 60 with GUGI-Ductile iron mesh grating MW 20/30, black, locked* | 1000 | 146 | 60 | 25 | 444 | 5,4 | 40239 |
| Type 80 with GUGI-Ductile iron mesh grating MW 20/30, black, locked* | 1000 | 146 | 80 | 45 | 444 | 5,5 | 40253 |
| Type 60 with ductile iron grating SW 80/14, black, locked* | 1000 | 146 | 60 | 25 | 450 | 5,8 | 40238 |
| Type 60 with ductile iron grating, black, SW 6 mm, with locking device* | 1000 | 146 | 60 | 25 | 290 | 7,6 | 41234 |
| Type 80 with ductile iron gating SW 80/14, black, locked* | 1000 | 146 | 80 | 45 | 450 | 5,9 | 40248 |
| Type 80 with ductile iron grating, black, SW 6 mm, with locking device* | 1000 | 146 | 80 | 45 | 290 | 7,7 | 41236 |
| Type 01 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 160 | 135 | 92 | 449 | 7,7 | 40234 |
| Type 0105 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 160 | 135 | 92 | 444 | 3,8 | 40264 |
| Type 010 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 160 | 185 | 142 | 444 | 8,6 | 40299 |
| Type 01005 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 160 | 185 | 142 | 444 | 4,2 | 40269 |
| Type 01 with ductile iron grating SW 80/14, black, locked | 1000 | 160 | 135 | 92 | 450 | 8,2 | 40233 |
| Type 01 with ductile iron grating, SW 6 mm, locked | 1000 | 160 | 135 | 92 | 290 | 9,2 | 41230 |
| Type 0105 with ductile iron grating SW 80/14, black, locked | 500 | 160 | 135 | 92 | 450 | 4,1 | 40263 |
| Type 0105 with ductile iron grating, black, SW 6 mm, locked | 500 | 160 | 135 | 92 | 290 | 4,6 | 41237 |
| Type 010 with ductile iron grating SW 80/14, black, locked | 1000 | 160 | 185 | 142 | 450 | 9,1 | 40298 |
| Type 010 with ductile iron grating, SW 6 mm, locked | 1000 | 160 | 185 | 142 | 290 | 10,1 | 41232 |
| Type 01005 with ductile iron grating SW 80/14, black, locked | 500 | 160 | 185 | 142 | 450 | 4,5 | 40268 |
| Type 01005 with ductile iron grating, black, SW 6 mm, locked | 500 | 160 | 185 | 142 | 290 | 5,0 | 41238 |

* For common frequented areas we recommend FASERFIX SUPER KS channels, flat (catalogue CIVILS).

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GREEN SUPER

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GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX®STANDARD 100

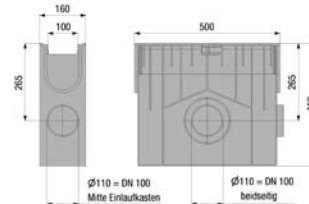
RECYFIX®STANDARD 100 - Accessories



Trash box with plastic bucket, slotted grating, SW 75/9, trafficable, locked



Trash box with plastic bucket, ductile iron grating SW 80/14, black, class C 250, locked



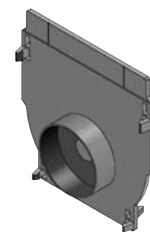
Foul air trap, vertical, DN 100



Foul air trap DN 100, inside



End cap combined made of PE-PP with outlet DN 70, type 01



End cap combined made of PE-PP with outlet DN 70, type 010

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| Trash box with plastic bucket, slotted grating, SW 75/9, trafficable, locked | 500 | 160 | 419 | 4,3 | 40256 | 41209 |
| Trash box with plastic bucket, mesh grating MW 30/10, trafficable, locked | 500 | 160 | 419 | 4,9 | 40257 | 41219 |
| Trash box with plastic bucket, mesh grating MW 30/10, galvanised, class B 125, locked | 500 | 160 | 419 | 5,5 | 41229 | - |
| Trash box with plastic bucket and GUGI-Ductile iron mesh grating MW 20/30, black, class C 250, locked | 500 | 160 | 419 | 6,0 | 40259 | - |
| Trash box with plastic bucket, ductile iron grating SW 80/14, black, class C 250, locked | 500 | 160 | 419 | 6,2 | 40258 | - |
| Trash box with plastic bucket and ductile iron grating, SW 6 mm, black, cl. C 250 locked | 500 | 160 | 419 | 6,9 | 41239 | - |
| Trash box with plastic-bucket, with perforated grating, stainless steel, car-traffic, locked | 500 | 160 | 419 | 4,6 | - | 41249 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 | - |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 | - |
| End cap closed, made of PE-PP, for type 60 | - | 147 | 60 | - | 40284 | - |
| End cap closed, made of PE-PP, for Type 80 | - | 147 | 80 | - | 40291 | - |
| End cap combined made of PE-PP with outlet DN 70, type 01 | - | 160 | 135 | 0,1 | 40281 | - |
| End cap combined made of PE-PP with outlet DN 70, type 010 | - | 160 | 185 | 0,2 | 40283 | - |
| Drilling of connecting holes DN 100 | - | - | - | - | 972 | - |
| Cutting to length of NW 100 | - | - | - | - | 990 | - |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 | - |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 | - |

The quality of the stainless steel material is according CNS 1.4301.

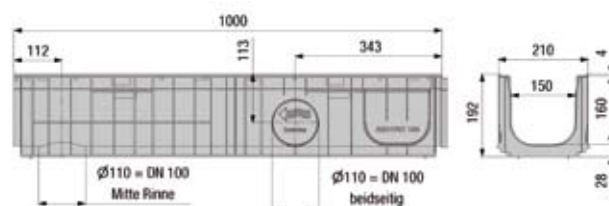
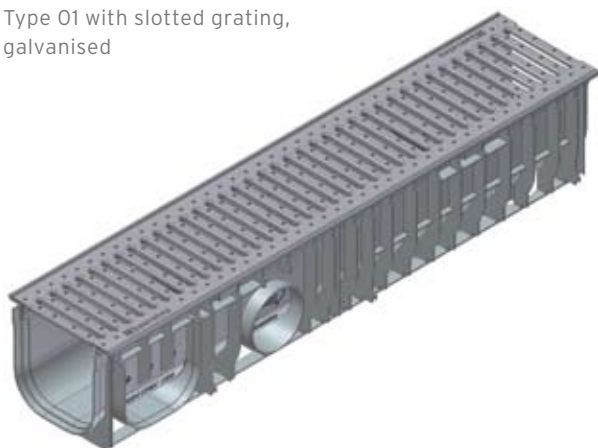
RECYFIX®STANDARD 100

| | | | | | | | | | |
|----------|--------------------|----------------------------|-------------------------|----------|---------------------------------|-----------------------|---------------------|----------------------|------------------|
| LINEFIX® | RECYFIX® STREIF | RECYFIX® GREEN STANDARD | RECYFIX® GREEN SUPER | DACHFIX® | RECYFIX®POINT FASERFIX®POINT | FASERFIX® STANDARD | SLOTTED CAHNNELS | RECYFIX® STANDARD | RECYFIX® PLUS |
|----------|--------------------|----------------------------|-------------------------|----------|---------------------------------|-----------------------|---------------------|----------------------|------------------|

RECYFIX®STANDARD 150

RECYFIX®STANDARD 150 - Combi article, car traffic

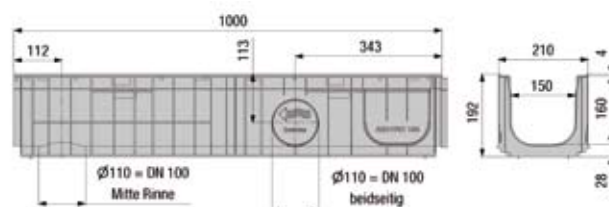
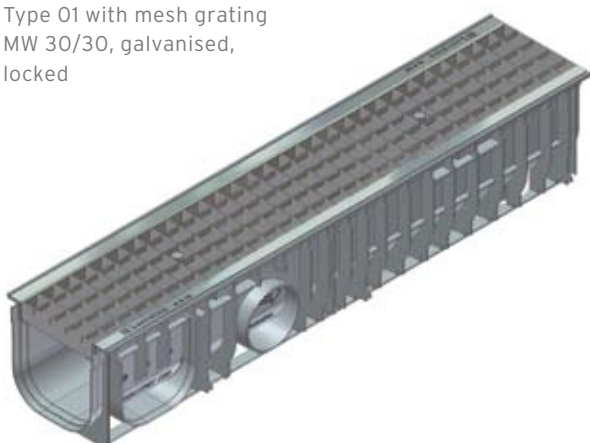
Type 01 with slotted grating,
galvanised



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 01 with slotted grating, galvanised | 1000 | 210 | 192 | 225 | 390 | 5,2 | 40163 |

RECYFIX®STANDARD 150 - Combi article, class B 125

Type 01 with mesh grating
MW 30/30, galvanised,
locked

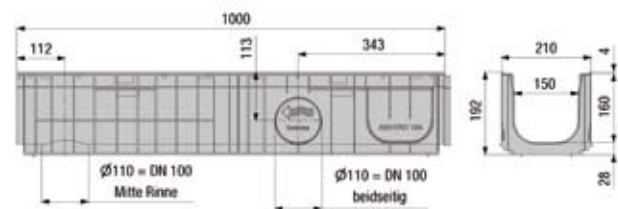
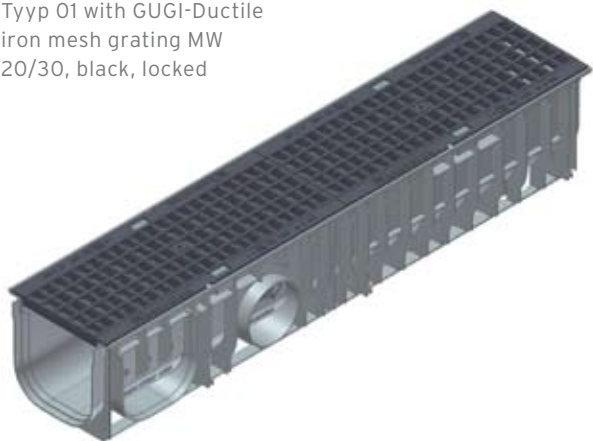


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 01 with mesh grating MW 30/30, galvanised, locked | 1000 | 210 | 192 | 225 | 1081 | 7,7 | 40171 |
| Type 0105 with mesh grating MW 30/30, galvanised, locked | 500 | 210 | 192 | 225 | 1081 | 3,8 | 40146 |
| Type 01 with mesh grating MW 30/10, galvanised, locked | 1000 | 210 | 192 | 225 | 1098 | 8,7 | 40177 |
| Type 0105 with mesh grating MW 30/10, galvanised, locked | 500 | 210 | 192 | 225 | 1098 | 4,5 | 40148 |

RECYFIX®STANDARD 150

RECYFIX®STANDARD 150 - Combi article, class C 250

Tyyp 01 with GUGI-Ductile
iron mesh grating MW
20/30, black, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Tyyp 01 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 210 | 192 | 225 | 745 | 11,9 | 40174 |
| Type 0105 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 500 | 210 | 192 | 225 | 745 | 6,0 | 40149 |

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SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

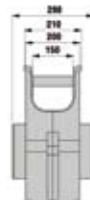
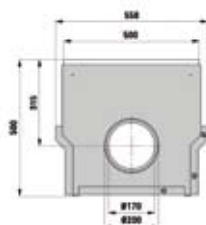
RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX®STANDARD 150

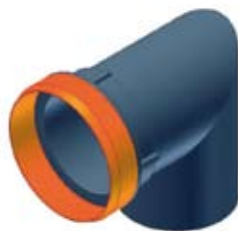
RECYFIX®STANDARD 150 - Accessories



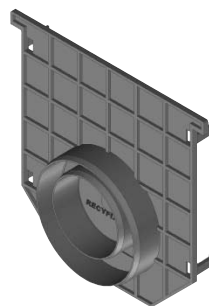
Trash box with galvanised bucket, with mesh grating MW 30/10, galvanised, class B 125, locked



Foul air trap, vertical, DN 100



Foul air trap DN 100, inside



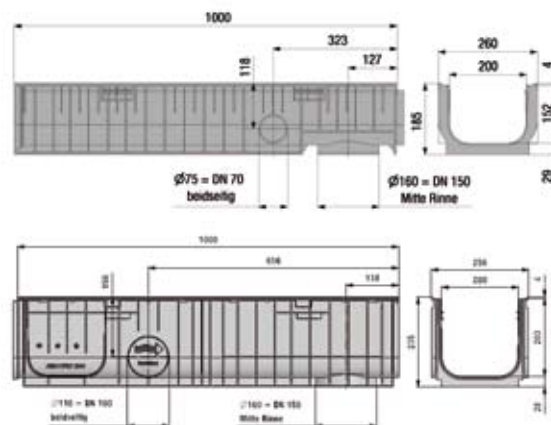
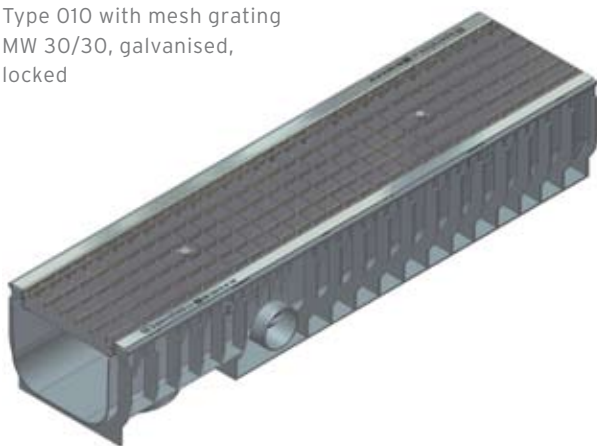
End cap combined made of PE-PP with outlet DN 70/100, Type 01

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Trash box with galvanised bucket, with mesh grating MW 30/30, galvanised, class B125, locked | 500 | 210 | 495 | 19,9 | 40154 |
| Trash box with galvanised bucket, with mesh grating MW 30/10, galvanised, class B 125, locked | 500 | 210 | 495 | 17,8 | 40156 |
| Trash box with galvanise bucket with GUGI-Ductile iron mesh grating MW 20/30, black, class C 250, locked | 500 | 210 | 495 | 19,6 | 40153 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| End cap combined made of PE-PP with outlet DN 70/100, Type 01 | - | 210 | 202 | 0,1 | 40191 |
| Drilling of connecting holes DN 150 | - | - | - | - | 973 |
| Cutting to length of NW 150 | - | - | - | - | 991 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

RECYFIX®STANDARD 200

RECYFIX®STANDARD 200 - Combi article, class B 125

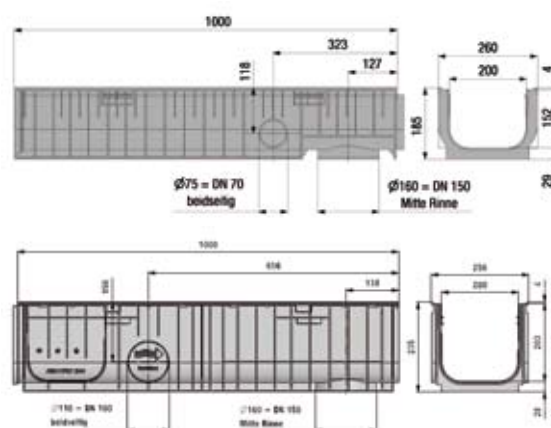
Type 010 with mesh grating
MW 30/30, galvanised,
locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with mesh grating MW 30/30, galvanised, locked | 1000 | 256 | 185 | 290 | 1620 | 9,3 | 40672 |
| Type 020 with mesh grating MW 30/30, galvanised, locking device | 1000 | 256 | 235 | 366 | 1620 | 10,2 | 40676 |
| Type 010 with mesh grating MW 30/10, galvanised, locked | 1000 | 256 | 185 | 290 | 1442 | 11,2 | 40685 |
| Type 020 with mesh grating MW 30/10, galvanised, with locking device | 1000 | 256 | 235 | 366 | 1442 | 11,3 | 40686 |

RECYFIX®STANDARD 200 - Combi article, class C 250

Type 010 with ductile iron
grating 2 x 85/20, black,
locked



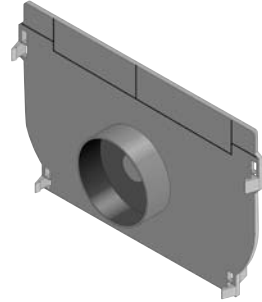
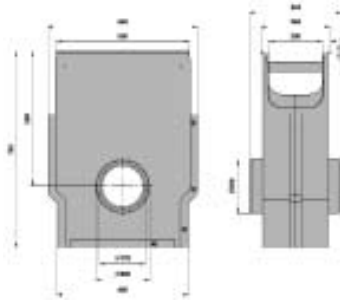
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 256 | 185 | 290 | 825 | 15,4 | 40665 |
| Type 020 with GUGI-Ductile iron mesh grating MW 20/30, black, locked | 1000 | 256 | 235 | 366 | 825 | 15,8 | 40666 |
| Type 010 with ductile iron grating 2 x 85/20, black, locked | 1000 | 256 | 185 | 290 | 822 | 15,0 | 40660 |
| Type 020 with ductile iron grating 2 x 85/20, black, locked | 1000 | 256 | 235 | 366 | 822 | 15,4 | 40661 |

RECYFIX®STANDARD 200

RECYFIX®STANDARD 200 - Accessories



Trash box with mesh grating MW 30/10, galvanised, cl. B 125, locked



End cap combined made of PE-PP with outlet DN 70, Type 010

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Trash box with mesh grating MW 30/30, galvanised, cl. B 125, locked | 500 | 256 | 734 | 27,0 | 40656 |
| Trash box with mesh grating MW 30/10, galvanised, cl. B 125, locked | 500 | 256 | 734 | 28,6 | 40657 |
| Trash box with GUGI-Ductile iron mesh grating MW 20/30, black, cl. C 250, locked | 500 | 256 | 734 | 30,8 | 40653 |
| Trash box with ductile iron grating 2 x 85/20, black, class C 250, locked | 500 | 256 | 734 | 30,6 | 40654 |
| End cap combined made of PE-PP with outlet DN 70, Type 010 | - | 258 | 185 | 0,2 | 40692 |
| End cap closed, Type 01 | - | 260 | 275 | 0,9 | 12081 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Cutting to length of NW 200 | - | - | - | - | 992 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

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SLOTTED
CHANNELS

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RECYFIX®POINT
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DACHFIX®

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GREEN SUPER

RECYFIX®
GREEN STANDARD

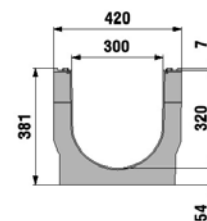
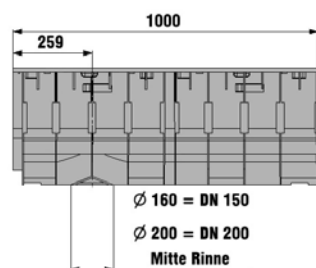
RECYFIX®
STREIF

LINEFIX®

RECYFIX®STANDARD 300

RECYFIX®STANDARD 300 - Combi article, class C 250

Type 010 with GUGI-Ductile iron mesh grating, MW 20/30, black, locked



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|---|--------------|-------------|--------------|---|---|--------------|----------------|
| Type 010 with GUGI-Ductile iron mesh grating, MW 20/30, black, locked | 1000 | 420 | 380 | 857 | 1385 | 33,2 | 40875 |

RECYFIX®STANDARD 300 - Accessories



End cap closed, galvanised, Type 010



End cap with horizontal UPVC-outlet DN 200, galvanised, Type 010

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| End cap closed, galvanised, Type 010 | - | 420 | 380 | 2,8 | 40881 |
| End cap with horizontal UPVC-outlet DN 200, galvanised, Type 010 | - | 420 | 380 | 3,2 | 40891 |
| Drilling of connecting holes DN 200 | - | - | - | - | 974 |
| Cutting to length of NW 300 | - | - | - | - | 993 |
| Sealing material SikaBond TS Fast, 600 ml, tubular bag, black | - | - | - | 0,6 | 6890 |
| Tubular pistol for Sikaflex TS Fast | - | - | - | 1,3 | 6891 |

SLOTTED CHANNELS

UNOBTRUSIVE DESIGN - LARGE DRAINAGE CAPACITY.
MAXIMUM APPEAL - FOR PEDESTRIAN AREAS.





AT A GLANCE

- ✓ Extensive range of drainage solutions with channels made of fibre-reinforced concrete or recycled PE-PP, in nominal widths of 100 mm and 150 mm
- ✓ Very narrow drainage opening for optimum visual effect
- ✓ Easy access to the channel run via access cover
- ✓ Symmetrical and asymmetrical models

SLOTTED CHANNELS

UNOBTRUSIVE DESIGN - LARGE DRAINAGE CAPACITY.
MAXIMUM APPEAL - FOR PEDESTRIAN AREAS.

APPLICATION AREAS

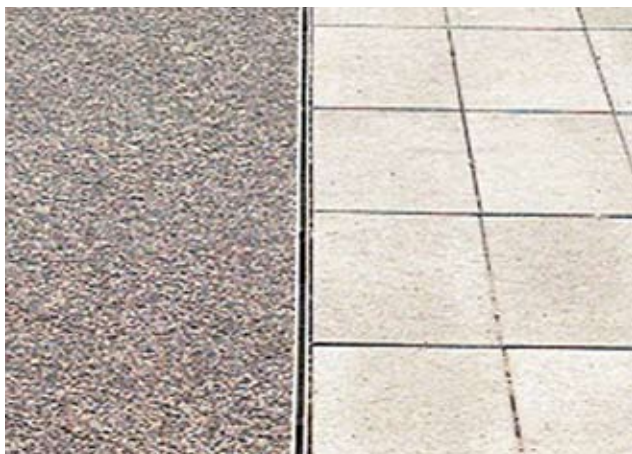
- for areas and façades with strong design requirements
- especially in public and commercial areas with pedestrian access

CHARACTERISTICS

- attractive design
- unobtrusive drainage systems
- galvanised steel or stainless steel

PRODUCT RANGE

- lower parts of channels in fibre-reinforced concrete or PE-PP
- symmetrical slotted covers
- asymmetrical slotted covers
- trash boxes with access cover



SLOTTED CHANNELS - visually attractive draining systems for areas and façades.

STYLISH DRAINING FOR A MODERN APPEAL

When designing public spaces, areas or façades with a strong aesthetic appeal it is often desirable to keep the surface drainage system as unobtrusive as possible. These situations call for drainage channel elements that fit in well with the architectural concept. At the same time, such systems must retain their full functionality. All surface water has to be drained away fast and reliably. In these situations, SLOTTED CHANNELS are the ideal choice.

HAURATON offers symmetrical and asymmetrical SLOTTED CHANNELS in two nominal widths. The LOWER PARTS of the channels can be supplied in RECYFIX PE-PP or FASERFIX concrete.



Asymmetrical slotted channels for draining a façade.

The slotted covers are made of galvanised steel or stainless steel. The drainage channels are installed deep below the overlapping surface covering and are therefore hidden from view. The only visible part at the surface is the narrow slot line, which is very unobtrusive and conveys a feeling of style and elegance. At the same time, all functional requirements are fully met. Surface water collects in the channels and is drained away quickly and reliably. SLOTTED CHANNELS can be integrated into all common surface finishes and even into asphalt. One option is also to use the inlet slots as a separator between different areas. Asymmetrical SLOTTED CHANNELS are supplied for drainage applications along façades.



Symmetrical slotted channels for surface draining integrate unobtrusively into the slab paving.

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CHANNELS

FASERFIX®
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FASERFIX®POINT

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GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNELS

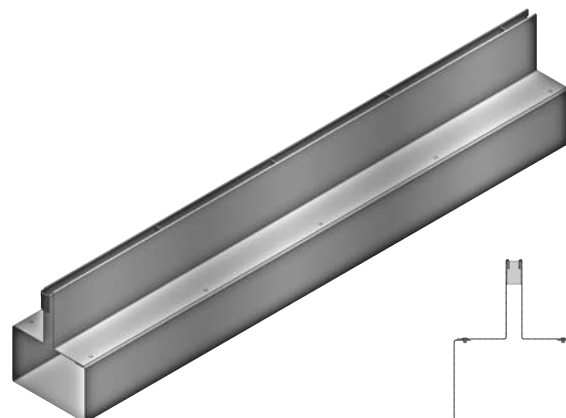
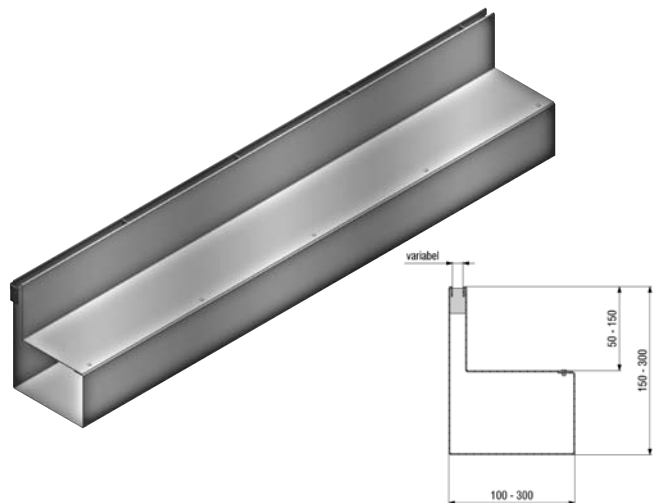
NON-STANDARD SOLUTIONS.

EXAMPLES OF BESPOKE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

SLOTTED CHANNELS are used for particularly inconspicuous drainage systems. In addition to the standard products, HAURATON supplies numerous special parts. Examples are crossing pieces and T-pieces, all of which can be used not only to provide reliable drainage, but also to create a visual pattern or to provide a demarcation between different types of surface finish. Indi-

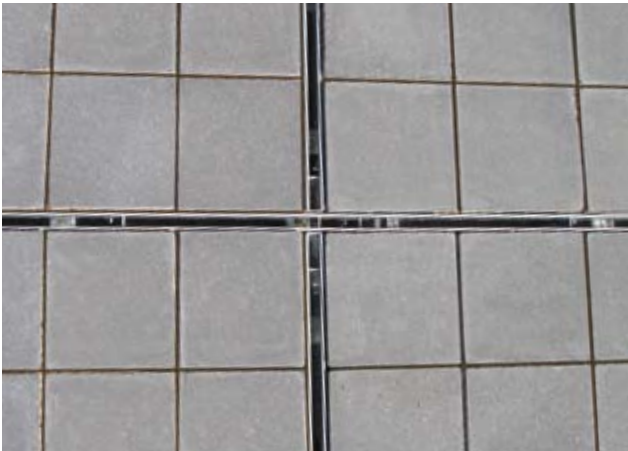
vidual solutions can be offered using symmetrical and asymmetrical SLOTTED CHANNELS in stainless steel or galvanised steel. These are particularly popular in curved applications around revolving doors, on public squares and façades. Our service covers the calculations for hydraulic loads, design and product schedules through to support during installation on site.

REGENSBURG, GERMANY, NEW BUILDING AND EXTENSION OF FACHHOCHSCHULE



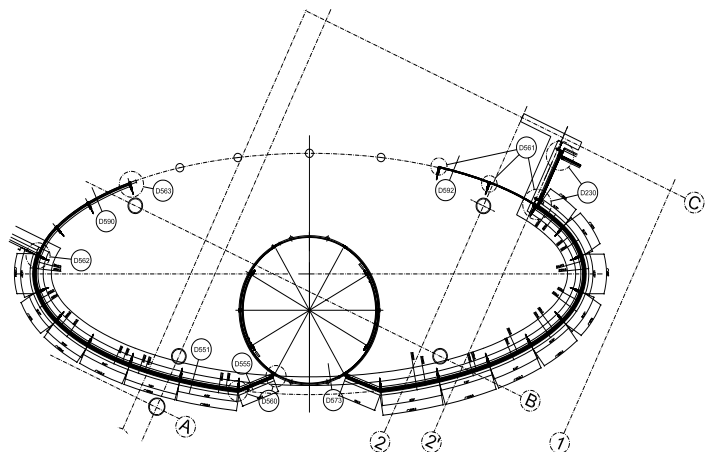
Surface and façade drainage has been realised with stainless steel slotted channels in heights of 70, 90 and 150 mm. The unique aspect of this project was that the channels were all laid along one line, which required the design and manufacture of transition pieces. This independent system copes fully and reliably with all drainage tasks.

HERTEN, RECTORY



The yard areas of the rectory in Herten are drained with FASERFIX SLOTTED CHANNELS which is laid out in the shape of a cross. The fall for draining the water towards the channel run was determined with the help of special calculations.

HAGEN, SAVINGS BANK



The layout of the building has the shape of an ellipse with revolving doors featuring as the entrance. A curved slotted channel in stainless steel follows the contour of the building and serves to drain storm water from the façade.

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GREEN STANDARD

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SLOTTED CHANNELS

NON-STANDARD SOLUTIONS.

EXAMPLES OF BESPOKE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

NEW VISITOR CENTRE FOR BASF

The new visitor centre of BASF was opened in the spring of 2007. Every year, about 50,000 visitors come to the factory in Ludwigshafen. The new visitor centre adds value to the location and offers a prestigious venue for visitors who come to learn more about the factory. In future, guests will be able to enter the visitor centre directly from the outside. For this purpose, the whole southern aspect of the building will be remodelled. In addition, the current roof will be replaced by a glazed structure on the fifth level which can be entered by the visitors. The visitor centre is expected to provide about 2,000 square metres of space.

The open area in front of the visitor centre will be redesigned to look modern and attractive. This creates a central open area towards the neighbouring building, which can also be used for events such as the open door day. To meet these requirements, unobtrusive and highly efficient slotted channels from HAURATON were installed for surface drainage. These slotted channels are made of 4 mm thick stainless steel and feature a neck dimension of 280 mm with the load class being D 400. The solid construction of the channels makes it possible to lay the 160 mm thick paving slabs (these had also been specially developed for the project) right up to the slotted channels. The base segment used is the FASERFIX SUPER 150 channel, which provides adequate hydraulic performance



The new BASF visitor centre in Ludwigshafen.



The 160 mm strong paving can be laid right up to the slotted channel.



For draining the new roof terrace, a DACHFIX channel has been design specifically for this project.

The SIDE-LOCK boltless locking system and 6 bolt fixings per linear metre ensure double safety for locking the slot inlets to the channel. The drainage line is serviced from special access covers that form a visual continuation of the channel.

The newly designed roof terrace is drained using 260 m DACHFIX special model with a width of 250 mm and with adjustable height. The DACHFIX components meet all technical requirements of the project through made-to-measure production.

The new BASF visitor centre in Ludwigshafen - an architectural highlight with long-term benefits for the company and visitors alike.



Installation of the solid slotted channel with grating in 4 mm stainless steel, with a neck dimension of 280 mm.

**RECYFIX®
PLUS**

**RECYFIX®
STANDARD**

**SLOTTED
CHANNELS**

**FASERFIX®
STANDARD**

**RECYFIX®POINT
FASERFIX®POINT**

DACHFIX®

**RECYFIX®
GREEN SUPER**

**RECYFIX®
GREEN STANDARD**

**RECYFIX®
STREIF**

LINEFIX®

SLOTTED CHANNELS

UNOBTRUSIVE DESIGN - LARGE DRAINAGE CAPACITY.

MAXIMUM APPEAL - FOR PEDESTRIAN AREAS.



symmetrical =
slot central

asymmetrical =
slot on one side

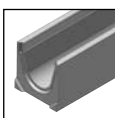
RECYFIX
STANDARD
channel 100

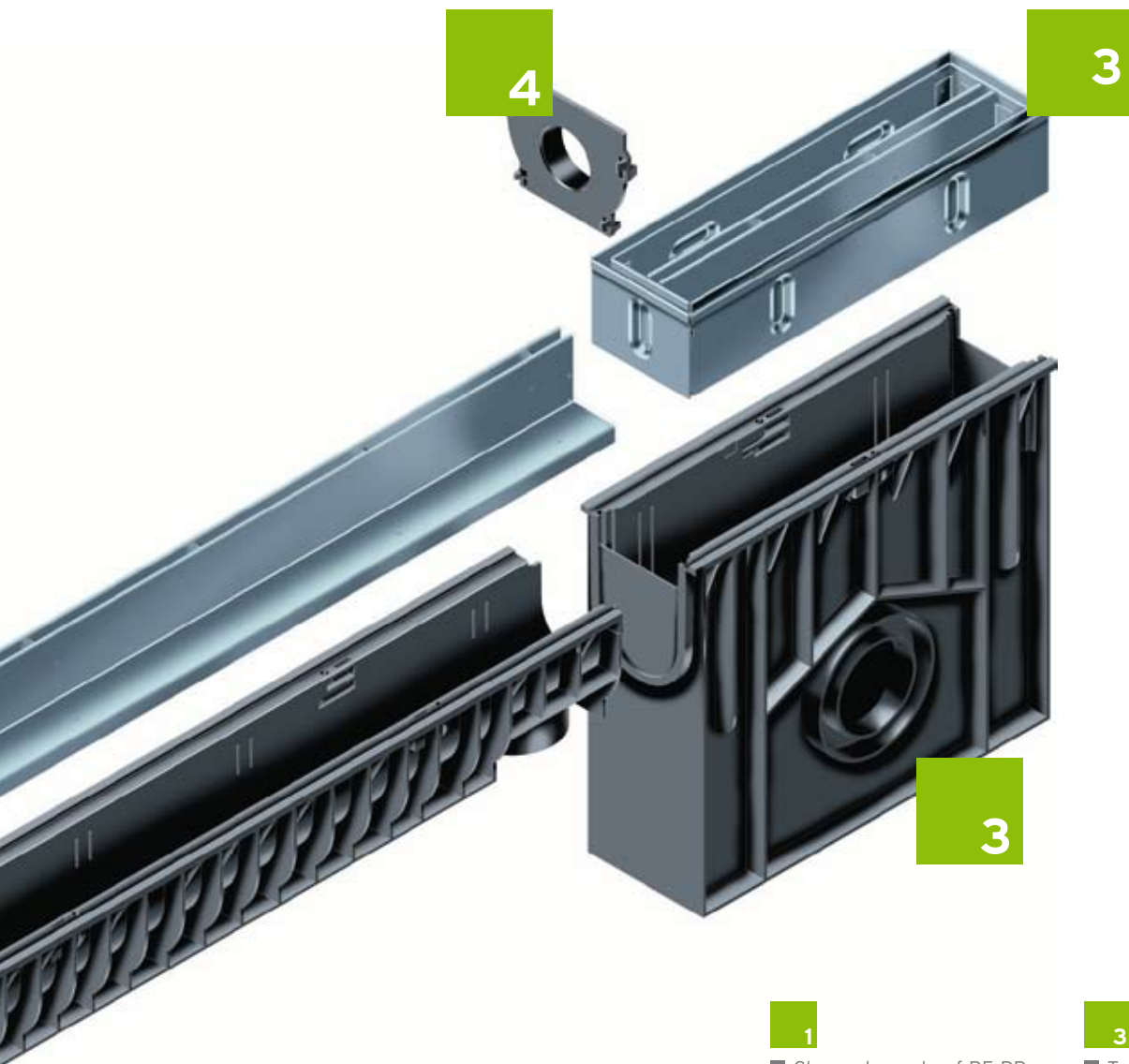


RECYFIX
STANDARD
channel 150



FASERFIX
STANDARD
channel 150





1

■ Channels made of PE-PP or fibre reinforced concrete in nominal widths 100 and 150 mm, with groove and tongue connection for exact installation

2

■ symmetrical and asymmetrical covers made of galvanised or stainless steel

3

■ Trash box with pipe-connection possibilities, with fitting access cover

4

■ End caps with and without outlets

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNEL 100

SLOTTED CHANNEL 100 - RECYFIX lower parts

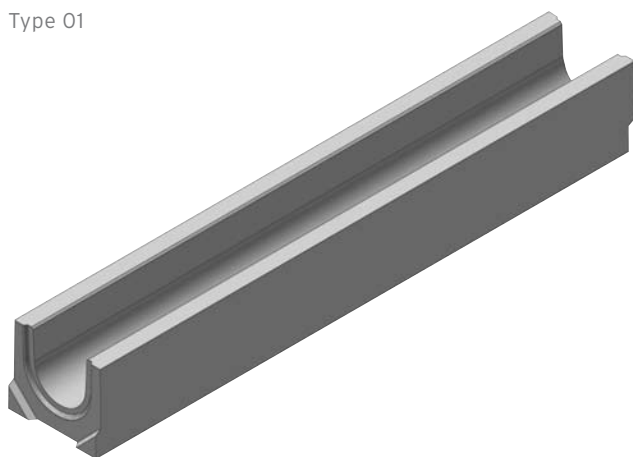
Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------|--------------|-------------|--------------|---|--------------|-------------|
| Type 01 | 1000 | 160 | 131 | 92 | 2,1 | 40325 |
| Type 010 | 1000 | 160 | 181 | 142 | 3,0 | 7605 |

SLOTTED CHANNEL 100 - FASERFIX lower parts

Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|---|--------------|-------------|
| Type 01 | 1000 | 160 | 140 | 89 | 31,5 | 6200 |
| Type 010 | 1000 | 160 | 194 | 143 | 39,8 | 6242 |
| Type 0105 | 500 | 160 | 140 | 89 | 15,8 | 6249 |

Channels with built-in fall on request.

SLOTTED CHANNEL 100

SLOTTED CHANNEL 100 - Slotted covers, neck height 160, class C 250

symmetric



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|------------|--------------|-------------|--------------|---|--------------|---------------------------|-----------------------------------|
| symmetric | 1000 | 160 | 188 | 125 | 8,2 | 5721 | 5771 |
| symmetric | 500 | 160 | 188 | 125 | 4,1 | 5722 | 5772 |
| asymmetric | 1000 | 160 | 188 | 125 | 8,2 | 5725 | 5775 |
| asymmetric | 500 | 160 | 188 | 125 | 4,2 | 5726 | 5776 |

Bigger NW and individual neck heights available as special construction for orders bigger than 30 m.
Available from II. quarter 2008.
The quality of the stainless steel material is according CNS 1.4301.

SLOTTED CHANNEL 100 - Slotted covers, neck height 200, class D 400*

symmetric



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|------------|--------------|-------------|--------------|---|--------------|---------------------------|-----------------------------------|
| symmetric | 1000 | 160 | 204 | 125 | 17,5 | 5821 | 5871 |
| symmetric | 500 | 160 | 204 | 125 | 8,8 | 5822 | 5872 |
| ssymmetric | 1000 | 160 | 204 | 125 | 18,2 | 5825 | 5875 |
| asymmetric | 500 | 160 | 204 | 125 | 9,2 | 5826 | 5876 |

* Not for use across the carriageway of highways or motorways in moving traffic.
Bigger NW and individual neck heights available as special construction for orders bigger than 30 m.
The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
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RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNEL 100

SLOTTED CHANNEL 100 - Accessories - RECYFIX STANDARD 100



Trash box for SLOTTED CHANNEL



Foul air trap, vertical, DN 100



Foul air trap DN 100, inside



End cap combined made of PE-PP with outlet DN 70, type 01

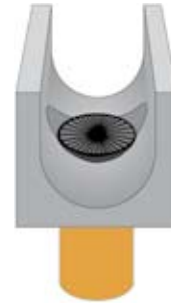
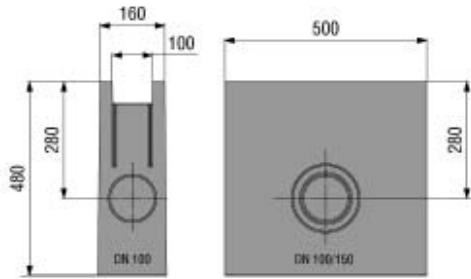
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Trash box for SLOTTED CHANNEL | 500 | 160 | 416 | 3,0 | 7755 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| End cap combined made of PE-PP with outlet DN 70, type 01 | - | 160 | 135 | 0,1 | 40281 |

SLOTTED CHANNEL 100

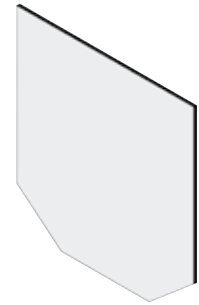
SLOTTED CHANNEL 100 - Accessories - FASERFIX STANDARD 100 E



Trash box with plastic bucket



Foul air trap DN 100
with hole



End cap closed,
galvanised, Type 01

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|-------------------------------------|--------------|-------------|--------------|--------------|----------------|
| Trash box with plastic bucket | 500 | 160 | 480 | 41,4 | 6253 |
| Trash box with galvanised bucket | 500 | 160 | 480 | 42,4 | 6255 |
| Foul air trap DN 100, outside | - | - | - | 0,4 | 961 |
| Foul air trap, DN 100, inside use | - | - | - | 0,4 | 962 |
| Foul air trap DN 100 with hole | - | - | 100 | 0,2 | 964 |
| End cap closed, galvanised, Type 01 | - | 160 | 140 | 0,3 | 6290 |
| End cap closed, Type 01 | - | 160 | 160 | 0,3 | 8181 |

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RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNEL 100

SLOTTED CHANNEL 100 - Accessories - Access covers, neck height 160 mm, class C 250



symmetric



asymmetric

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| symmetric | 500 | 160 | 188 | 8,0 | 5746 | 5796 |
| asymmetric | 500 | 160 | 188 | 7,1 | 5756 | 5786 |
| Extraction bail for access covers (2 pieces required) | - | - | - | - | 740 | - |

Available from II. quarter 2008.

The quality of the stainless steel material is according CNS 1.4301.

SLOTTED CHANNEL 100 - Accessories - Access covers, neck height 200 mm, class D 400*



symmetric



asymmetric

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| symmetric | 500 | 160 | 204 | 23,4 | 5846 | 5896 |
| asymmetric | 500 | 160 | 204 | 18,1 | 5856 | 5886 |
| Extraction bail for access covers (2 pieces required) | - | - | - | - | 740 | - |

* Not for use across the carriageway of highways or motorways in moving traffic.

The quality of the stainless steel material is according CNS 1.4301.

SLOTTED CHANNEL 100

SLOTTED CHANNEL 100 - Accessories - Service

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Cutting to length of NW 100 | - | - | - | - | 990 |
| Mitre cuts for NW 100 (two cuts per connection) | - | - | - | - | 995 |
| Drilling of connecting holes DN 100 | - | - | - | - | 972 |
| Inserting of PVC union connectors DN 100 * | - | - | - | - | 982 |

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNEL 150

SLOTTED CHANNEL 150 - RECYFIX STANDARD lower parts

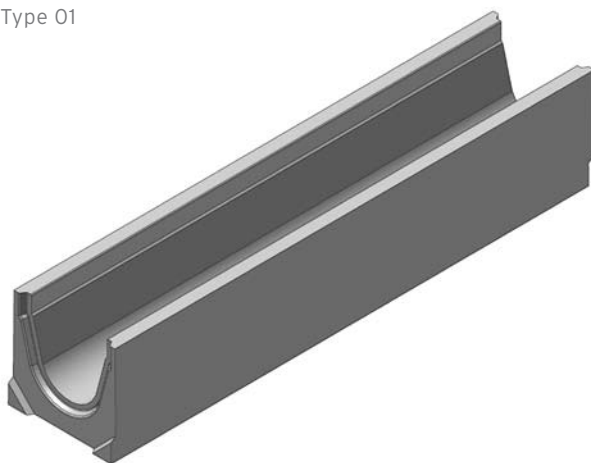
Type 01



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|---------|--------------|-------------|--------------|---|--------------|-------------|
| Type 01 | 1000 | 210 | 192 | 225 | 2,7 | 41021 |

SLOTTED CHANNEL 150 - FASERFIX STANDARD lower parts

Type 01

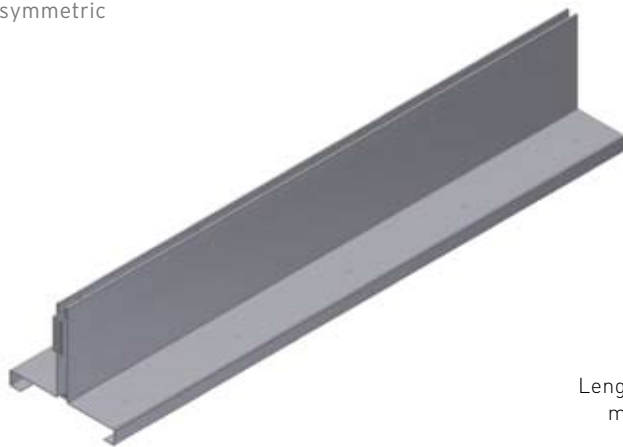


| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|-----------|--------------|-------------|--------------|---|--------------|-------------|
| Type 01 | 1000 | 210 | 200 | 185 | 53,0 | 400 |
| Type 0105 | 500 | 210 | 200 | 185 | 26,5 | 401 |

SLOTTED CHANNEL 150

SLOTTED CHANNEL 150 - Slotted cover, neck height 160, class C 250

symmetric



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|------------|--------------|-------------|--------------|---|--------------|---------------------------|-----------------------------------|
| symmetric | 1000 | 206 | 188 | 125 | 9,1 | 412 | 422 |
| symmetric | 500 | 206 | 188 | 125 | 4,6 | 413 | 423 |
| asymmetric | 1000 | 206 | 188 | 125 | 9,2 | 452 | 462 |
| asymmetric | 500 | 206 | 188 | 125 | 4,7 | 453 | 463 |

Bigger NW and individual neck heights available as special construction for orders bigger than 30 m.
Available from II. quarter 2008.
The quality of the stainless steel material is according CNS 1.4301.

SLOTTED CHANNEL 150 - Slotted cover, neck height 200, class D 400*

symmetric



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. galvanised | Article No. stainless steel |
|------------|--------------|-------------|--------------|---|--------------|---------------------------|-----------------------------------|
| symmetric | 1000 | 206 | 204 | 125 | 19,2 | 417 | 427 |
| symmetric | 500 | 206 | 204 | 125 | 9,7 | 418 | 428 |
| asymmetric | 1000 | 206 | 204 | 125 | 20,0 | 457 | 467 |
| asymmetric | 500 | 206 | 204 | 125 | 10,1 | 458 | 468 |

* Not for use across the carriageway of highways or motorways in moving traffic.
Bigger NW and individual neck heights available as special construction for orders bigger than 30 m.
The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

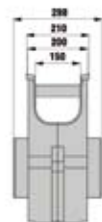
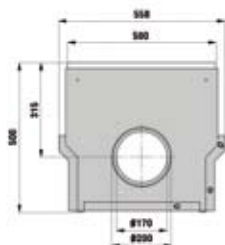
RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

SLOTTED CHANNEL 150

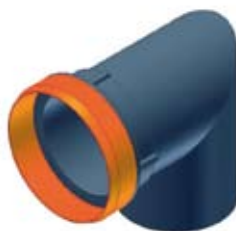
SLOTTED CHANNEL 150 - Accessories - RECYFIX STANDARD 150



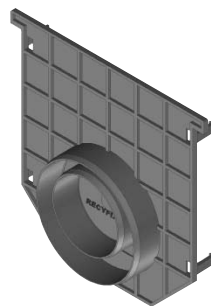
Trash box with galvanized mud bucket



Foul air trap, vertical, DN 100



Foul air trap DN 100, inside



End cap combined made of PE-PP with outlet DN 70/100, Type 01

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Trash box with galvanized mud bucket | 500 | 210 | 500 | 14,9 | 40152 |
| Foul air trap, vertical, DN 100 | - | - | - | 0,5 | 40295 |
| Foul air trap DN 100, inside | - | - | - | 0,2 | 40290 |
| End cap combined made of PE-PP with outlet DN 70/100, Type 01 | - | 210 | 202 | 0,1 | 40191 |

SLOTTED CHANNEL 150

SLOTTED CHANNEL 150 - Accessories - FASERFIX STANDARD 150



Trash box with galvanised
mud bucket

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|--------------------------------------|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| Trash box with galvanised mud bucket | 500 | 210 | 570 | 65,9 | 416 | - |
| Foul air trap DN 150 | - | - | - | 2,0 | 960 | - |
| End cap closed, type 01 | - | 210 | 220 | 0,9 | 11081 | 11581 |

SLOTTED CHANNEL 150 - Accessories - Access covers, neck height 160, class C 250



symmetric



asymmetric

| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| symmetric | 500 | 206 | 188 | 8,9 | 471 | 481 |
| asymmetric | 500 | 206 | 188 | 7,9 | 476 | 486 |
| Extraction bail for access covers [2 pieces required] | - | - | - | - | 740 | - |

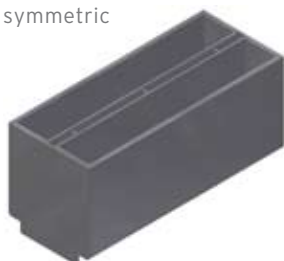
Available from II. quarter 2008.

The quality of the stainless steel material is according CNS 1.4301.

SLOTTED CHANNEL 150

SLOTTED CHANNEL 150 - Accessories - Access covers, neck height 200, class D 400*

symmetric



asymmetric



| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|---|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| symmetric | 500 | 206 | 204 | 25,7 | 490 | 495 |
| asymmetric | 500 | 206 | 204 | 20,4 | 491 | 496 |
| Extraction bail for access covers (2 pieces required) | - | - | - | - | 740 | - |

* Not for use across the carriageway of highways or motorways in moving traffic.
The quality of the stainless steel material is according CNS 1.4301.

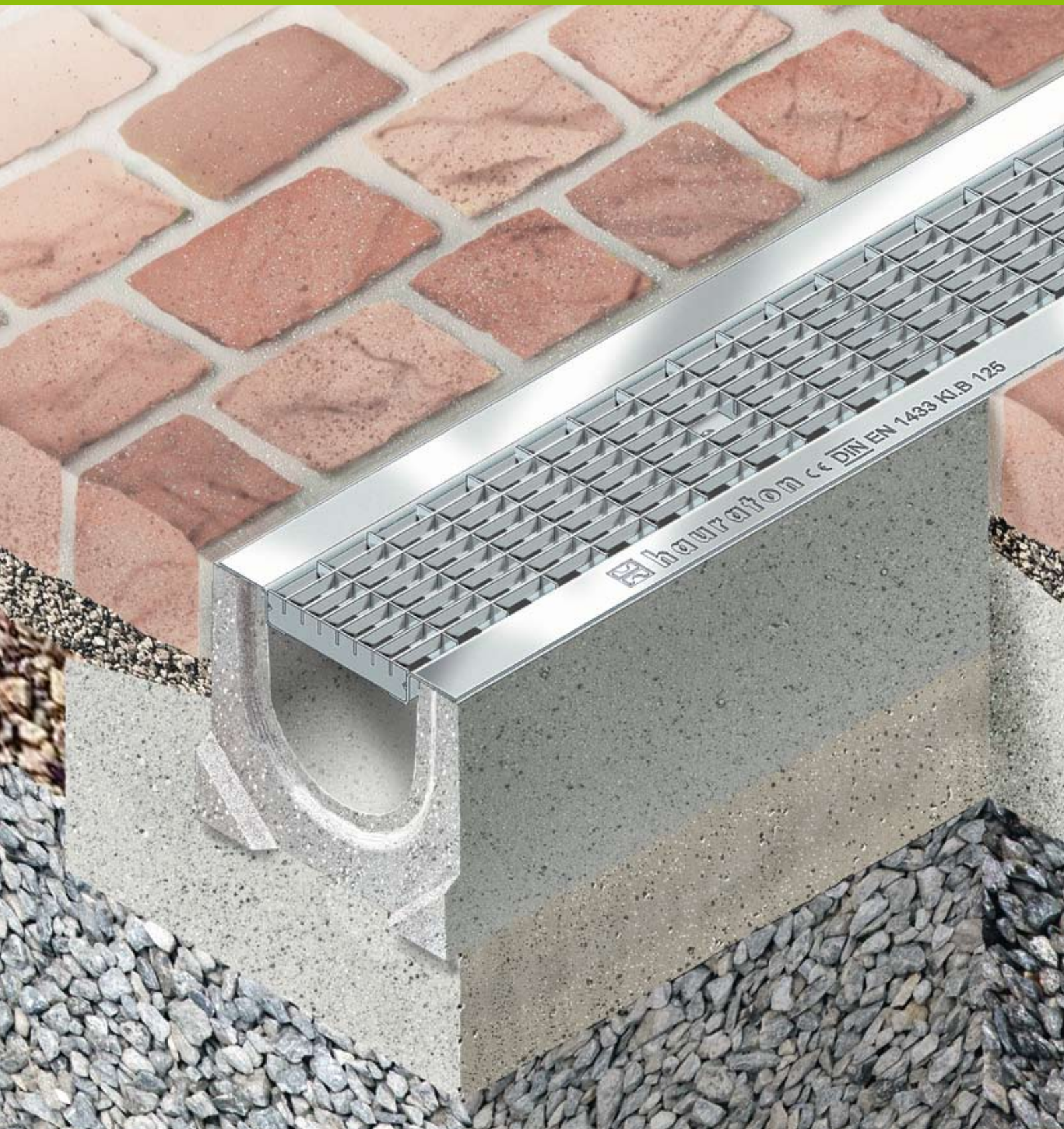
SLOTTED CHANNEL 150 - Accessories - Service

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Cutting to length of NW 150 | - | - | - | - | 991 |
| Mitre cuts of NW 150 (two cuts per connection) | - | - | - | - | 996 |
| Drilling of connecting holes DN 150 | - | - | - | - | 973 |
| Inserting of PVC union connectors DN 150* | - | - | - | - | 983 |

FASERFIX® STANDARD

RELIABLE DRAINAGE.

FOR USE IN PEDESTRIAN AND DOMESTIC AREAS.



AT A GLANCE

- ✓ FASERFIX STANDARD E 100 channels in acc. with DIN EN 1433
- ✓ Easy to install
- ✓ For domestic and commercial areas up to load class C250
- ✓ With and without built-in fall
- ✓ Resistant to frost and salt



FASERFIX® STANDARD

RELIABLE DRAINAGE.

FOR USE IN PEDESTRIAN AND DOMESTIC AREAS.

REQUIREMENTS

For fast and reliable surface water drainage in domestic situations, yards, gardens and landscaping. The channels should also be suitable for installation by householders and meet the requirements of loading capacities A - C in accordance with DIN EN 1433.

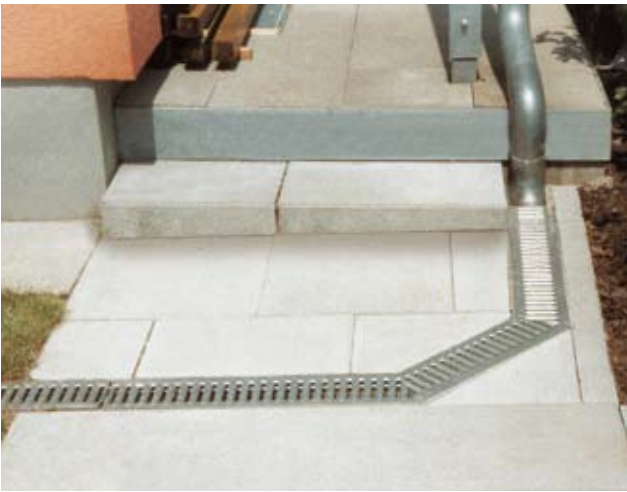
SOLUTION

FASERFIX STANDARD channels made of fibre-reinforced concrete are an economic alternative to the well-known FASERFIX SUPER channels. In combination with the GUGI ductile iron mesh gratings, FASERFIX STANDARD channels 100 E meet the requirements of load class C 250 in accordance with DIN EN 1433. The channels are resistant to frost and road salt.



APPLICATION AREAS

Primarily domestic areas such as garage entrances, yards, terraces, gardens etc. but also public areas such as smaller railway stations.



| | | | | | | | | | |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|
| RECYFIX® PLUS | RECYFIX® STANDARD | SLOTTED CHANNELS | FASERFIX® STANDARD | RECYFIX® POINT FASERFIX® POINT | DACHFIX® | RECYFIX® GREEN SUPER | RECYFIX® GREEN STANDARD | RECYFIX® STREIF | LINEFIX® |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|

FASERFIX® STANDARD

RELIABLE DRAINAGE.

FOR USE IN PEDESTRIAN AND DOMESTIC AREAS.

FASERFIX STANDARD E 100 channels meet the requirements of DIN EN 1433 and are suitable for the following loading capacities:



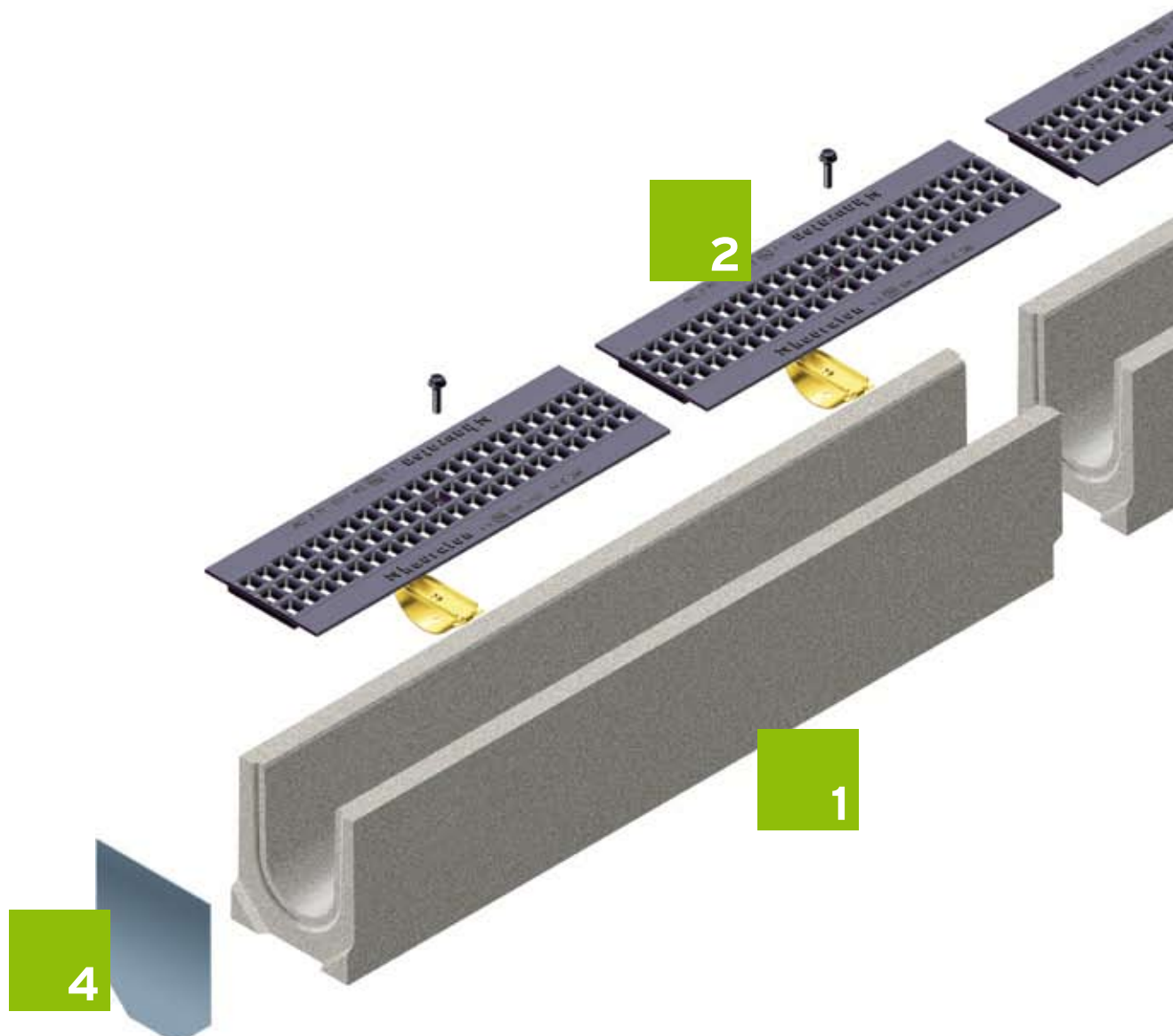
**CATEGORY A 15,
LOAD CLASS 15 KN**

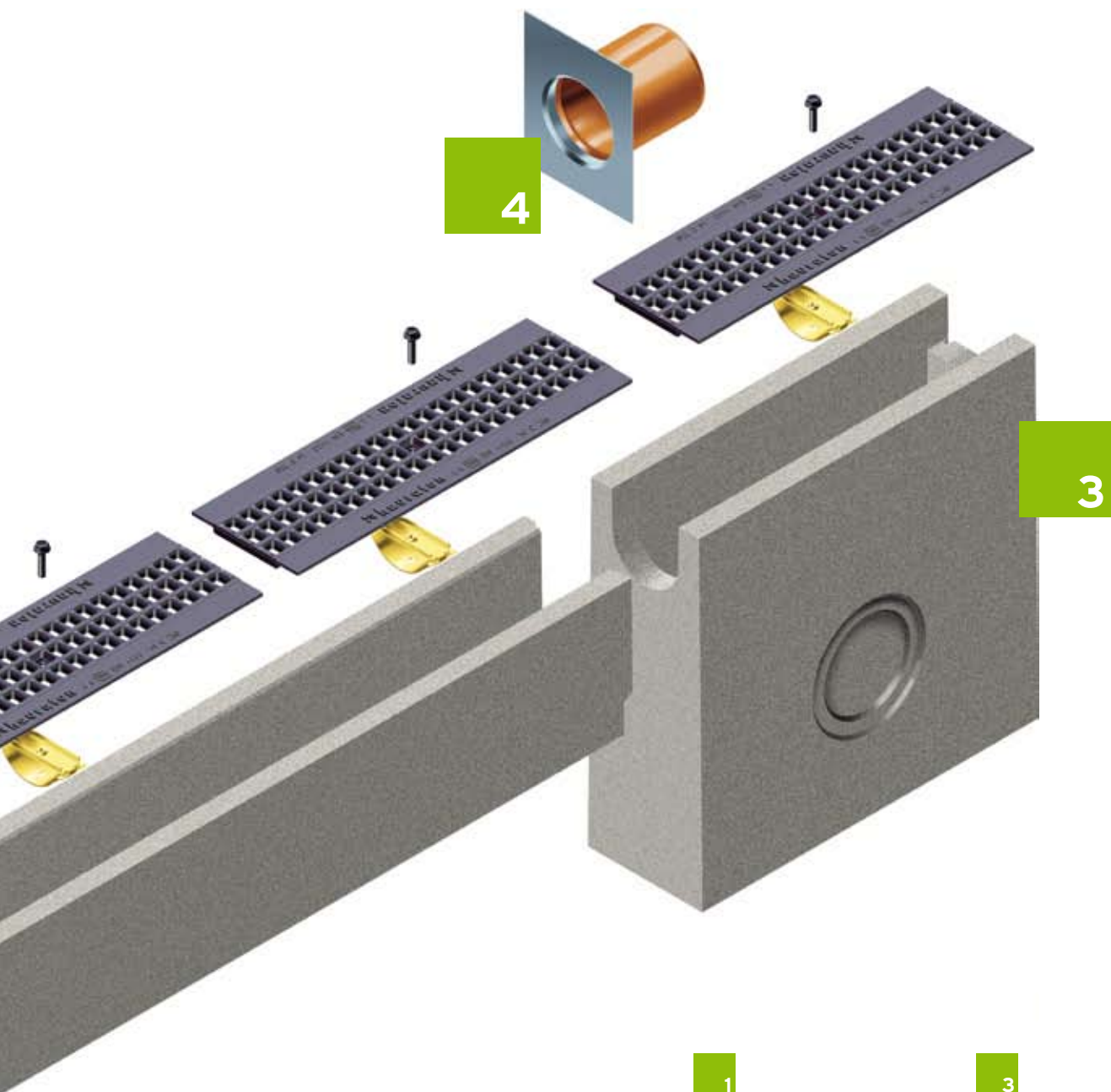


**CATEGORY B 125,
LOAD CLASS 125 KN**



**CATEGORY C 250,
LOAD CLASS 250 KN**





1

- Channels made of fibre reinforced concrete, according DIN V 19580 / EN 1433, CE-conform with safety joint, with groove and tongue for exact installation

2

- numerous grating options, for example GUGI-Ductile iron mesh gratings, with fixing possibility

3

- Trash box with pipe-connection possibilities, with removable mud bucket

4

- End caps with and without outlets

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

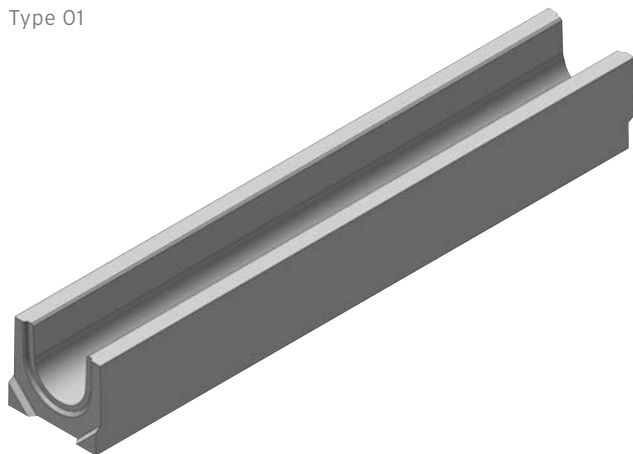
RECYFIX®
STREIF

LINEFIX®

FASERFIX®STANDARD E 100

FASERFIX®STANDARD E 100 - Channel lower parts

Type 01



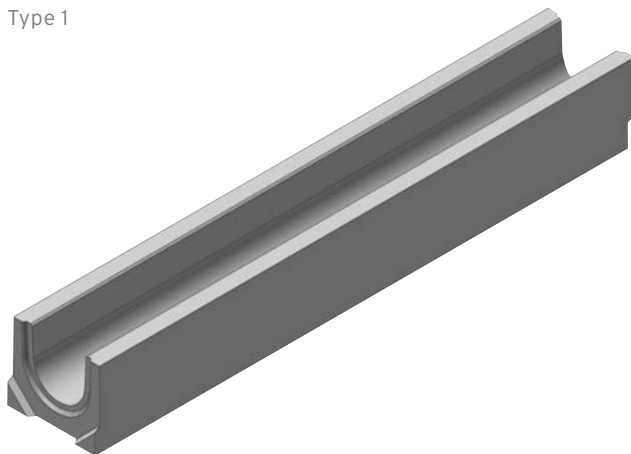
| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|----------------------|--------------|-------------|--------------|---|--------------|-------------|
| Type 01 | 1000 | 160 | 140 | 89 | 31,5 | 6200 |
| Type 01L with hole* | 1000 | 160 | 140 | 89 | 31,2 | 6300 |
| Type 010 | 1000 | 160 | 194 | 143 | 39,8 | 6242 |
| Type 010L with hole* | 1000 | 160 | 194 | 143 | 39,4 | 6342 |
| Type 0105 | 500 | 160 | 140 | 89 | 15,8 | 6249 |

* Distance from middle of the hole (DN100) to the end of the channel: 100 mm.

FASERFIX®STANDARD E 100

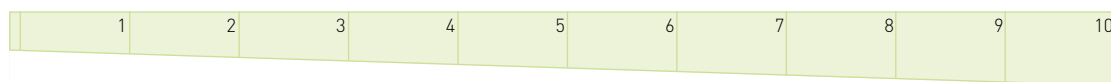
FASERFIX®STANDARD E 100 - Channel lower parts built-in fall 0,6 %

Type 1



| | Length mm | Width mm | Height mm | Drainage cross- sect. cm ² | Weight kg | Article No. |
|---------|--------------|-------------|--------------|---|--------------|-------------|
| Type 1 | 1000 | 160 | 140 - 146 | 89 | 32,2 | 6201 |
| Type 2 | 1000 | 160 | 146 - 152 | 95 | 33,0 | 6202 |
| Type 3 | 1000 | 160 | 152 - 158 | 101 | 33,8 | 6203 |
| Type 4 | 1000 | 160 | 158 - 164 | 107 | 34,5 | 6204 |
| Type 5 | 1000 | 160 | 164 - 170 | 113 | 35,2 | 6205 |
| Type 6 | 1000 | 160 | 170 - 176 | 119 | 36,0 | 6206 |
| Type 7 | 1000 | 160 | 176 - 182 | 125 | 36,8 | 6207 |
| Type 8 | 1000 | 160 | 182 - 188 | 131 | 37,5 | 6208 |
| Type 9 | 1000 | 160 | 188 - 194 | 137 | 38,2 | 6209 |
| Type 10 | 1000 | 160 | 194 - 200 | 143 | 39,0 | 6210 |

End cap
Type 01



End cap Type 01
with horizontal outlet

| Type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Height mm | 140-146 | 146-152 | 152-158 | 158-164 | 164-170 | 170-176 | 176-182 | 182-188 | 188-194 | 194-200 |
| Drainage cross- sect. cm ² | 89 | 95 | 101 | 107 | 113 | 119 | 125 | 131 | 137 | 143 |
| Weight KG | 32,25 | 33,0 | 33,75 | 34,5 | 35,25 | 36,0 | 36,75 | 37,5 | 38,25 | 39,0 |

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

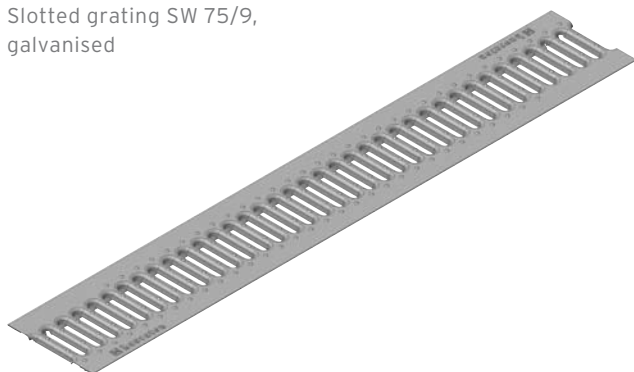
RECYFIX®
STREIF

LINEFIX®

FASERFIX®STANDARD E 100

FASERFIX®STANDARD E 100 - Gratings, car traffic

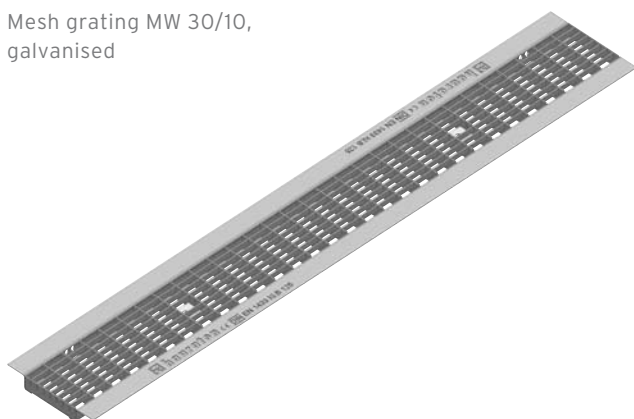
Slotted grating SW 75/9,
galvanised



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|-------------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Slotted grating SW 75/9, galvanised | 1000 | 158 | 21 | 280 | 2,4 | 6270 |
| Slotted grating SW 75/9, galvanised | 500 | 158 | 21 | 280 | 1,2 | 6271 |

FASERFIX®STANDARD E 100 - Gratings, class B 125

Mesh grating MW 30/10,
galvanised



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|-----------------------------------|--------------|-------------|--------------|---|--------------|-------------|
| Mesh grating MW 30/10, galvanised | 1000 | 158 | 20 | 650 | 3,6 | 6280 |
| Mesh grating MW 30/10, galvanised | 500 | 158 | 20 | 650 | 1,8 | 6281 |

FASERFIX®STANDARD E 100

FASERFIX®STANDARD E 100 - Gratings, class C 250

GUGI-Ductile iron mesh
grating MW 20/30, black



| | Length mm | Width mm | Height mm | Intake cross- sect. cm ² /m | Weight kg | Article No. |
|--|--------------|-------------|--------------|---|--------------|-------------|
| GUGI-Ductile iron mesh grating MW 20/30, black | 500 | 158 | 14 | 444 | 3,3 | 6267 |

We recommend to fix the GUGI-Ductile iron mesh gratings with the locking handle art.-no. 6267 roadworthy.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

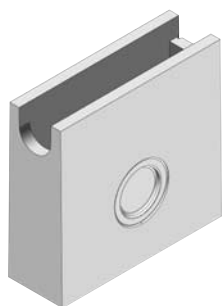
RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

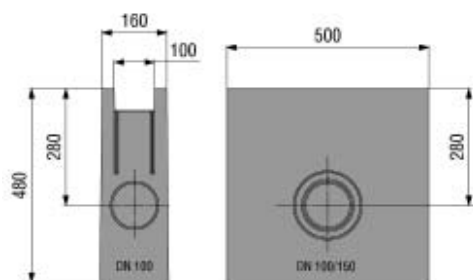
LINEFIX®

FASERFIX®STANDARD E 100

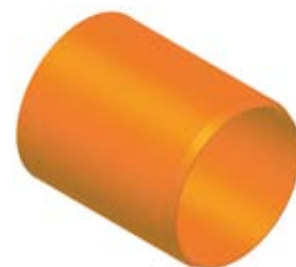
FASERFIX®STANDARD E 100 - Accessories



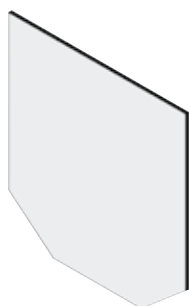
Trash box with plastic bucket



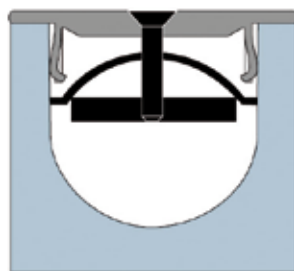
Foul air trap DN 100
with hole



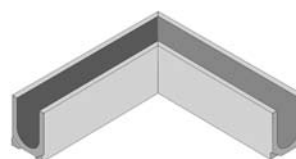
UPVC-outlet DN 100



End cap closed,
galvanised, Type 01



Locking handle for
ductile iron gratings



Mitre cuts of NW 100 (two
cuts per connection)



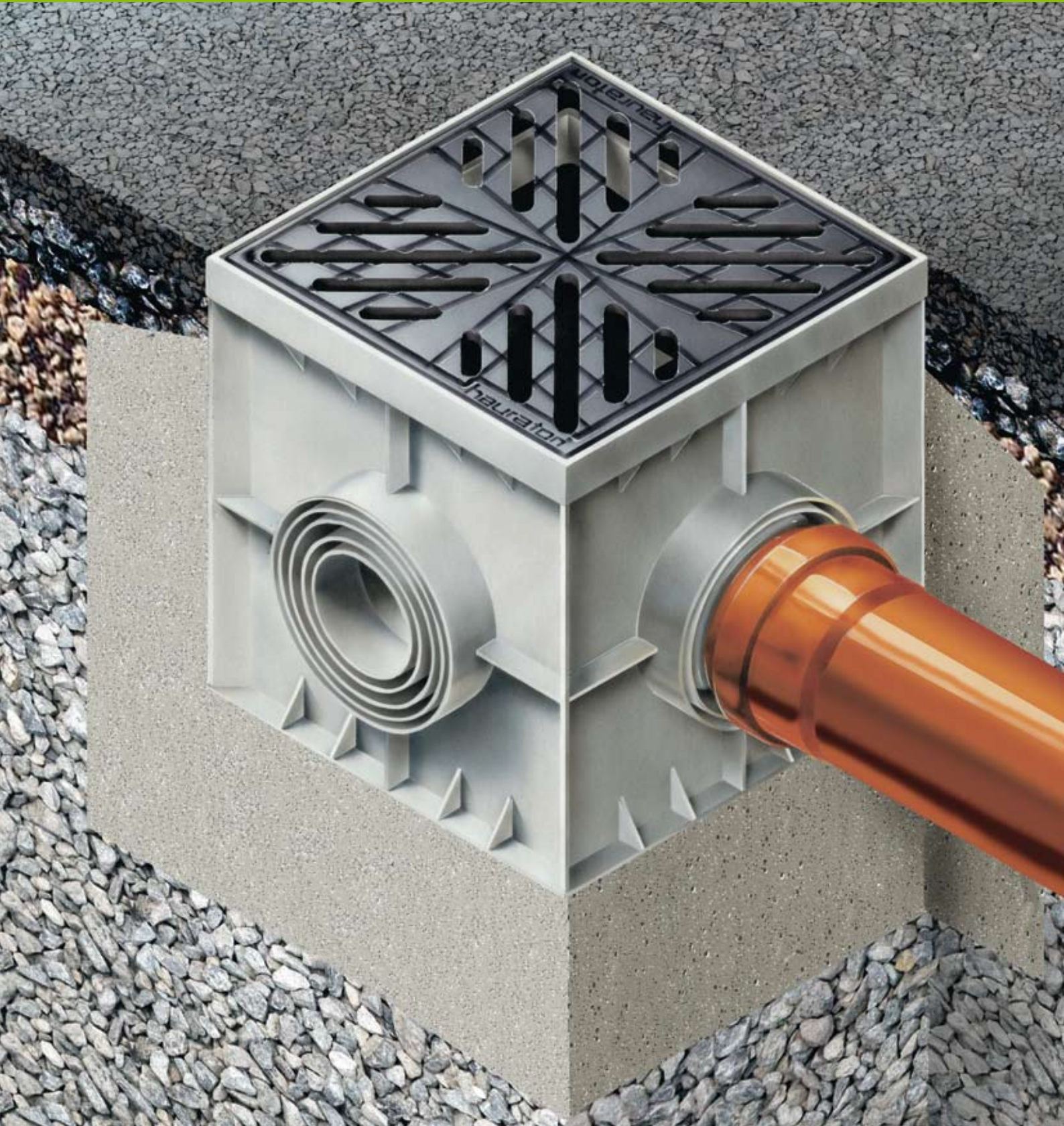
Inserting of PVC union
connectors DN 100

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Trash box with plastic bucket | 500 | 160 | 480 | 41,4 | 6253 |
| Trash box with galvanised bucket | 500 | 160 | 480 | 42,4 | 6255 |
| Foul air trap DN 100 with hole | - | - | 100 | 0,2 | 964 |
| UPVC-outlet DN 100 | - | - | - | 0,2 | 903 |
| End cap closed, galvanised, Type 01 | - | 160 | 140 | 0,3 | 6290 |
| End cap closed, galvanised, Type 010 | - | 160 | 194 | 0,4 | 6291 |
| End cap with horizontal PVC-outlet DN 100, galvanised, Type 010 | - | 160 | 194 | 0,5 | 6297 |
| Locking handle for ductile iron gratings | - | - | - | 0,1 | 5095 |
| Locking handle for all slotted gratings | - | - | - | 0,1 | 5090 |
| Cutting to length of NW 100 | - | - | - | - | 994 |
| Mitre cuts of NW 100 (two cuts per connection) | - | - | - | - | 999 |
| Drilling of connection holes DN 100 | - | - | - | - | 977 |
| Inserting of PVC union connectors DN 100 | - | - | - | - | 987 |

RECYFIX® POINT FASERFIX® POINT STANDARD

POINT DRAINAGE.

FOR GARDENS, GARAGES AND RESIDENTIAL AREAS.





AT A GLANCE

- ✓ RECYFIX POINT made of high-quality polypropylene
- ✓ FASERFIX POINT STANDARD made of fibre-reinforced concrete
- ✓ For heavy rains or large quantities of melt water
- ✓ Ideal for all paved yards, drives and pathways, wash stations and car repair workshops

RECYFIX®POINT FASERFIX®POINT STANDARD

POINT DRAINAGE.

FOR GARDENS, GARAGES AND RESIDENTIAL AREAS.

REQUIREMENTS

After prolonged periods of rain, heavy rainfalls or melting snow, yards and other areas can flood very quickly. RECYFIX POINT and FASERFIX POINT STANDARD yard gullies provide a simple and effective solution. And in terms of durability and strength the point gullies from HAURATON meet all requirements.

SOLUTION

RECYFIX POINT and FASERFIX POINT STANDARD yard gullies are reliable drainage gullies with an attractive design for yards, driveways and other areas. To match the format of any adjoining paving they have been designed in a popular square format of 30 x 30 cm.

The yard gullies are made either from polypropylene or from fibre-reinforced concrete. Both materials guarantee a very long service life. Owing to its small weight of only 2.5 kg, the RECYFIX POINT yard gully is easy to transport and install. It can be connected to any common ground drainage pipes. Preformed pipe outlets on all four sides make the connection to all common pipe formats easy. There is a choice of two different gratings. The star design of the high-quality cast iron grating is particularly attractive as a focal point. The other option is a mesh grating in galvanised steel.



A point drainage set includes a mud bucket and an immersion baffle as a foul air trap. The FASERFIX POINT STANDARD comes equipped with an integral PVC union connector in DN 100 with a sealing lip for connecting to the ground drainage pipe.

APPLICATION AREAS

FASERFIX and RECYFIX POINT gullies are designed for point drainage of paved or metalled commercial and domestic areas.

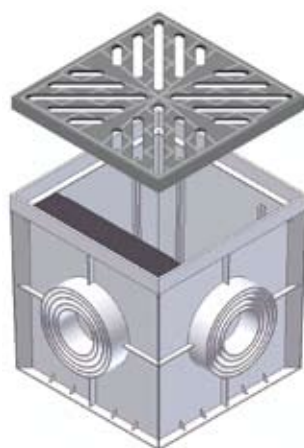


Special stainless steel grating

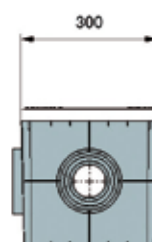
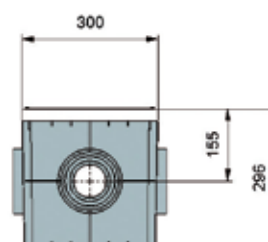
| | | | | | | | | | |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|
| RECYFIX® PLUS | RECYFIX® STANDARD | SLOTTED CAHNNELS | FASERFIX® STANDARD | RECYFIX® POINT FASERFIX® POINT | DACHFIX® | RECYFIX® GREEN SUPER | RECYFIX® GREEN STANDARD | RECYFIX® STREIF | LINEFIX® |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|

RECYFIX®POINT 30/30

RECYFIX®POINT 30/30 - Point drain

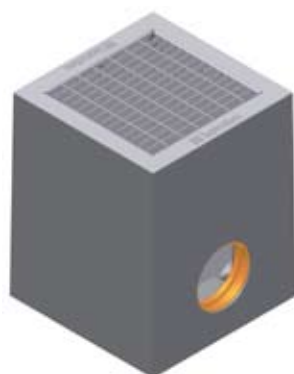


with ductile iron grating,
star design, black

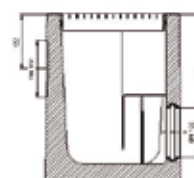
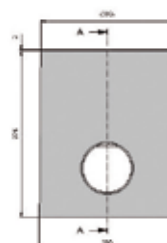


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| with ductile iron grating, star design, black | 300 | 300 | 300 | 7,6 | 185 |
| with mesh grating, MW 30/15, galvanised | 300 | 300 | 300 | 4,2 | 183 |
| Upper part made of Polypropylene, heighth 120 mm | 300 | 300 | 120 | 0,7 | 178 |

FASERFIX®POINT 30/30 - Point drain



with mesh grating MW
30/15, galvanised

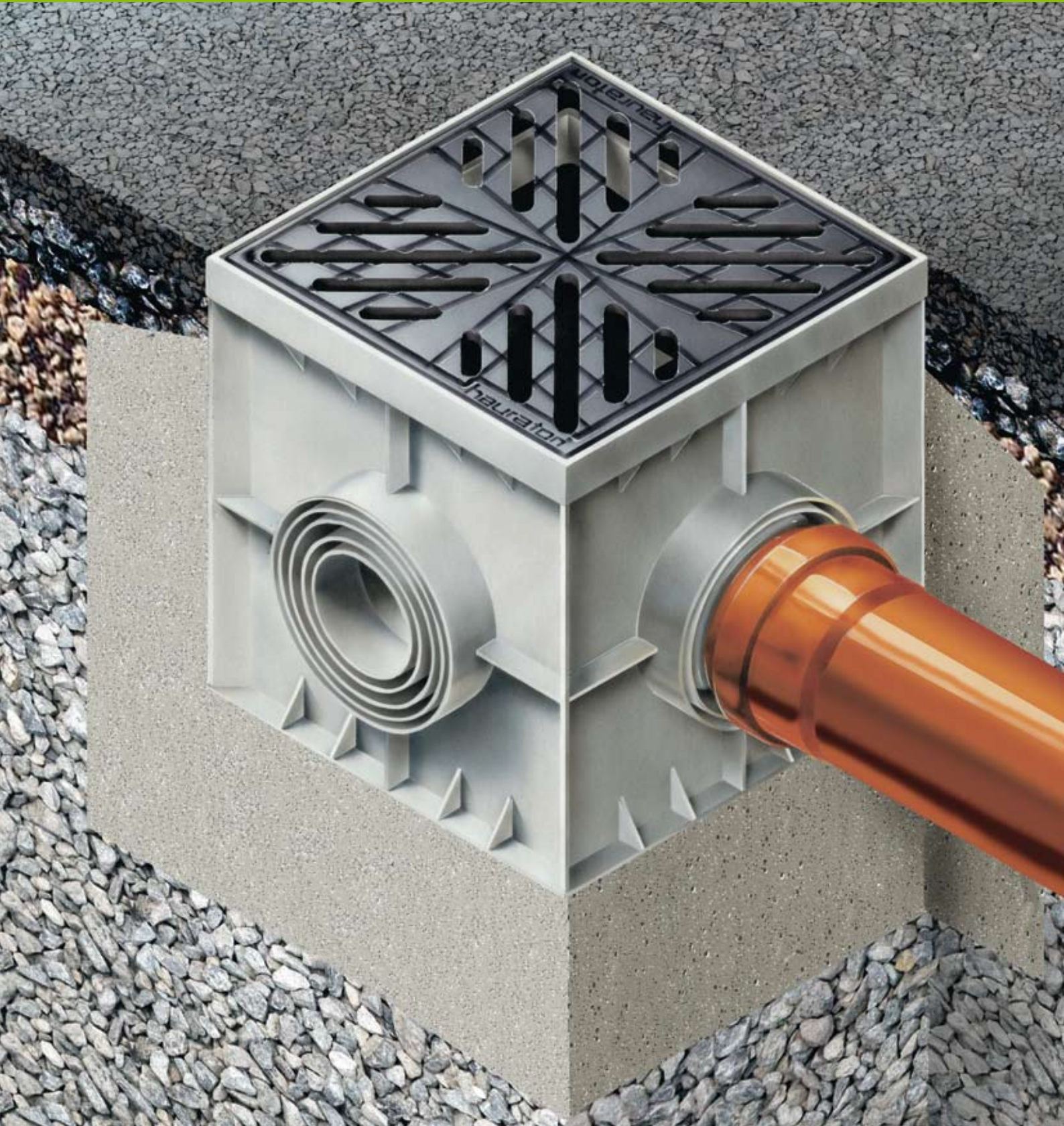


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| with mesh grating MW 30/15, galvanised | 300 | 305 | 375 | 35,5 | 4430 |

RECYFIX® POINT FASERFIX® POINT STANDARD

POINT DRAINAGE.

FOR GARDENS, GARAGES AND RESIDENTIAL AREAS.





AT A GLANCE

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- ✓ FASERFIX POINT STANDARD made of fibre-reinforced concrete
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RECYFIX®POINT FASERFIX®POINT STANDARD

POINT DRAINAGE.

FOR GARDENS, GARAGES AND RESIDENTIAL AREAS.

REQUIREMENTS

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A point drainage set includes a mud bucket and an immersion baffle as a foul air trap. The FASERFIX POINT STANDARD comes equipped with an integral PVC union connector in DN 100 with a sealing lip for connecting to the ground drainage pipe.

APPLICATION AREAS

FASERFIX and RECYFIX POINT gullies are designed for point drainage of paved or metalled commercial and domestic areas.

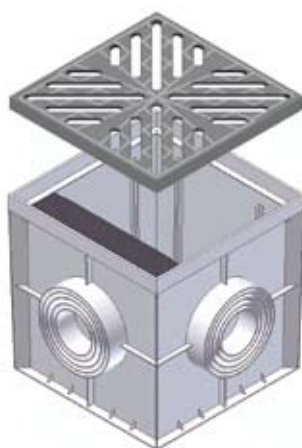


Special stainless steel grating

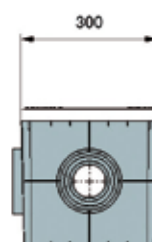
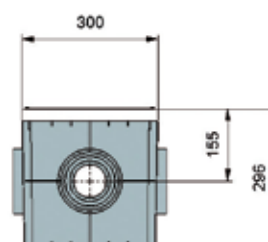
| | | | | | | | | | |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|
| RECYFIX® PLUS | RECYFIX® STANDARD | SLOTTED CAHNNELS | FASERFIX® STANDARD | RECYFIX® POINT FASERFIX® POINT | DACHFIX® | RECYFIX® GREEN SUPER | RECYFIX® GREEN STANDARD | RECYFIX® STREIF | LINEFIX® |
|---------------|-------------------|------------------|--------------------|-----------------------------------|----------|----------------------|-------------------------|-----------------|----------|

RECYFIX®POINT 30/30

RECYFIX®POINT 30/30 - Point drain



with ductile iron grating,
star design, black

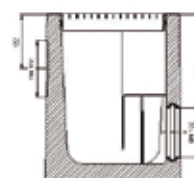
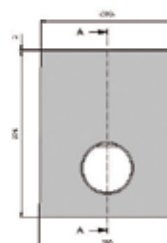


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| with ductile iron grating, star design, black | 300 | 300 | 300 | 7,6 | 185 |
| with mesh grating, MW 30/15, galvanised | 300 | 300 | 300 | 4,2 | 183 |
| Upper part made of Polypropylene, heighth 120 mm | 300 | 300 | 120 | 0,7 | 178 |

FASERFIX®POINT 30/30 - Point drain



with mesh grating MW
30/15, galvanised

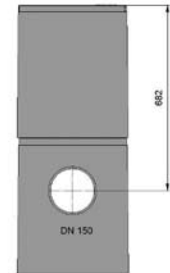
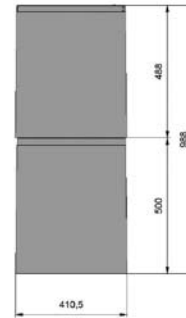
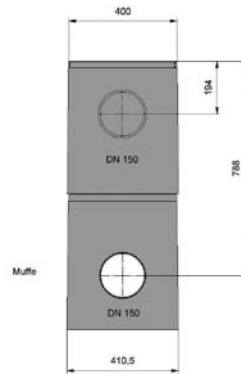


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| with mesh grating MW 30/15, galvanised | 300 | 305 | 375 | 35,5 | 4430 |

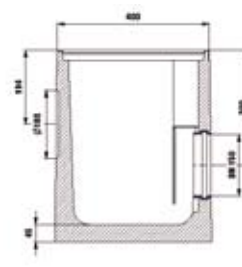
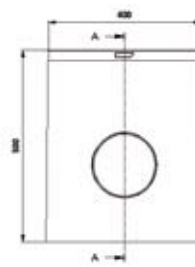
FASERFIX®POINT 40/40

FASERFIX®POINT 40/40 - Point drain

Size 1, 2 parts,
with mesh grating
MW 30/30,
galvanised



Size 2, 1 part,
with mesh grating
MW 30/30,
galvanised



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Size 1, 2 parts, with mesh grating MW 30/30, galvanised | 400 | 400 | 988 | 141,0 | 4860 |
| Size 2, 1 part, with mesh grating MW 30/30, galvanised | 400 | 400 | 500 | 82,4 | 4760 |
| Extension part | 400 | 400 | 438 | 58,5 | 4825 |

TENDER PROPOSALS

1. ____ no.

RECYFIX POINT 30/30

yard gully in PE-PP, with grating ____, load class B 125, with foul air trap, plastic mud bucket and union connector for PVC pipe DN 100, l/w/h 300x300x300 mm, art. no. ____.

To be supplied and laid in accordance with the manufacturer's installation instructions.

Quality in acc. with DIN EN ISO 9001:2000

Manufactured by: Hauraton GmbH & Co. KG

P. O. Box 16 61

D-76437 Rastatt, Germany

Tel.: +49-7222-958-0

Fax: +49-7222-958-102

E-Mail: export@hauraton.com

2. ____ no.

FASERFIX POINT STANDARD

yard gully in fibre-reinforced concrete, class A 15, size ____, with PVC connector union with seal DN 100, foul air trap, plastic mud bucket and mesh grating MW 30/15, l/w/h ____x____x____mm, art. no. ____.

To be supplied and laid in accordance with the manufacturer's installation instructions.

Quality in acc. with DIN EN ISO 9001:2000

Manufactured by: Hauraton GmbH & Co. KG

P. O. Box 16 61

D-76437 Rastatt, Germany

Tel.: +49-7222-958-0

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E-Mail: export@hauraton.com

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

DACHFIX®

UNIQUE AND RELIABLE DRAINAGE.
FOR DRAINING ROOF TERRACES AND FAÇADES.



AT A GLANCE

- ✓ Provide reliable protection against water build-up
- ✓ Robust construction
- ✓ Produced in long standard pieces for efficient installation
- ✓ Attractive grating options



DACHFIX®

UNIQUE AND RELIABLE DRAINAGE.
FOR DRAINING ROOF TERRACES AND FAÇADES.

REQUIREMENT

Surface water on flat roofs and roof terraces must be allowed to drain away quickly and reliably. It is imperative to prevent damage from water rising above the threshold of doors and windows and from water pressure against vertical parts of the building. At the same time, the guidelines for flat roof construction and the relevant DIN standards have to be complied with. In accordance with the guidelines for flat roofs it is possible to reduce the standard upstand of 15 cm in front of doors if there is suitable drainage in the immediate proximity of the doors. The illustrations in the flat roof guidelines show a suitable drainage option. The system requires additional back pressure capacity for rainwater from sudden downpours.

SOLUTION

DACHFIX channels provide good spare capacity for back pressure from sudden accumulations of precipitation water. They can be used for horizontal and vertical drainage. They protect walls, doors and window elements against water levels building up. DACHFIX channels are open channel systems. The LOWER PARTS of the channels consist of a strong frame or shell construction with outlet options to all sides. The height adjustment devices of the DACHFIX channels make it possible to adapt the channels to all kinds of unevenness in the substrate. The top edge of the channels should always finish flush with the paving slabs.

The complete drainage set is easy to install and can simply be cut on site to suit the drainage layout. Likewise it is possible to use DACHFIX channels as escape routes or catwalks for cleaning purposes. It is also possible to order non-standard parts in different materials and non-standard construction.

CHARACTERISTICS

- good reserve capacity for dealing with back pressure from sudden water precipitation
- effective protection of walls, doors and window elements
- for barrier-free passages on roof terraces
- lower parts made of recycled PE-PP, corrosion-proof and durable

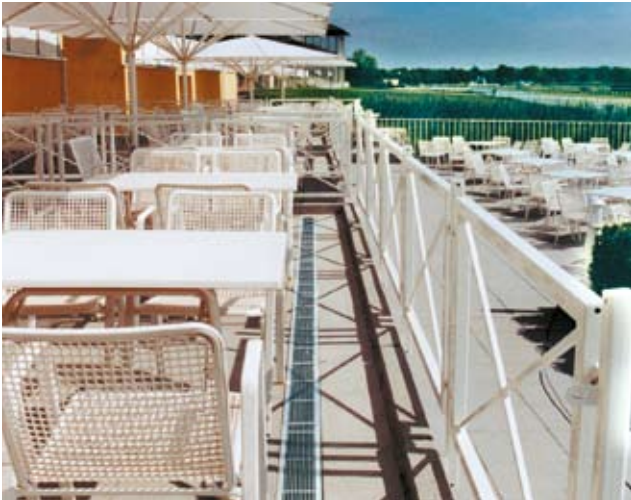
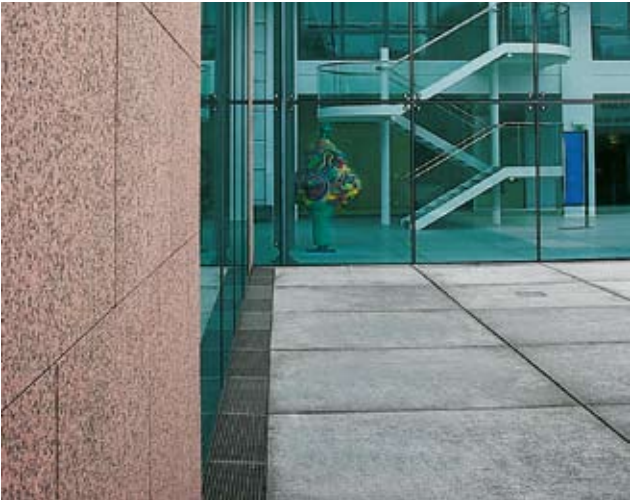
PRODUCT RANGE

- lower parts made of galvanised steel or stainless steel or recycled PE-PP
- large channel lengths up to 1500 mm
- gratings in galvanised steel or stainless steel
- mesh gratings in galvanised steel, stainless steel or PE-PP
- DACHFIX Gully elements



APPLICATIONS

DACHFIX channels are suitable for planted roofs, walk-on roof areas and roof terraces, as façade channels as well as drainage channels in front of entrances, balconies and terraces.



| | | | | | | | | | |
|---------------|-------------------|------------------|--------------------|---------------------------------|----------|----------------------|-------------------------|-----------------|----------|
| RECYFIX® PLUS | RECYFIX® STANDARD | SLOTTED CHANNELS | FASERFIX® STANDARD | RECYFIX®POINT FASERFIX®POINT | DACHFIX® | RECYFIX® GREEN SUPER | RECYFIX® GREEN STANDARD | RECYFIX® STREIF | LINEFIX® |
|---------------|-------------------|------------------|--------------------|---------------------------------|----------|----------------------|-------------------------|-----------------|----------|

DACHFIX®

NON-STANDARD SOLUTIONS.

EXAMPLES OF BESPOKE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

In public spaces with a high volume of traffic the architectural design is particularly important. Drained surfaces and façades should harmonise visually with the design of the overall building.

HAURATON offers a broad range of channels in stainless steel or galvanised steel for this situation, which are individually manufactured according to the specification for a technically and attractive surface drainage. These products are characterised by a high degree of flexibility. The channels are very well suited to be integrated in any type of façade or surface material as required by architect and client.

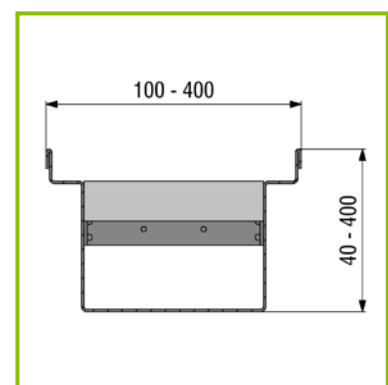
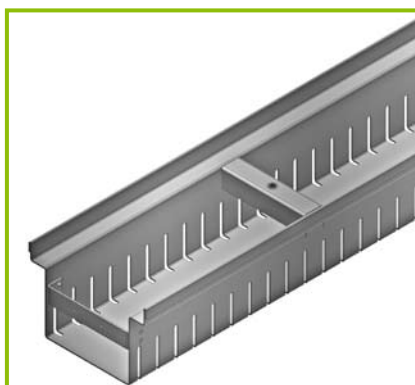
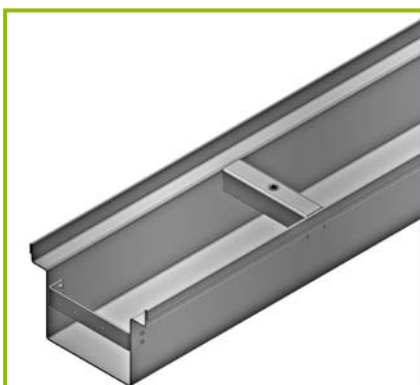
For special duties, the technicians at HAURATON work together with the engineers to develop new versions; for example for the Mercedes-Benz museum in Stuttgart the company developed channels with removable sidewall in high-quality stainless steel. The connection profile of the façade elements is positioned below the top edge of the channel. This makes it possible to service or replace glass elements after the installation of the channel without having to incur the expense of removing the channels.

FRANKFURT OVAL, GERMANY



Economy drainage channel in stainless steel, polygonal with stainless steel grating. The façade drainage channel was individually adapted to the contour of the building, creating an elegant transition between horizontal surface finishes and façade.

BOX CHANNELS ECONOMY, STRAIGHT



FRANKFURT MAINTOWER



DACHFIX channel, polygonal with perforated grating. With a height of 200 metres, the Main Tower is the fourth-highest tower block in Frankfurt. The viewing platform is drained with the help of polygonally installed DACHFIX channels which were adapted to the two different diameters of the round layout of the Tower.

FRANKFURT AIRPORT CENTER , GERMANY

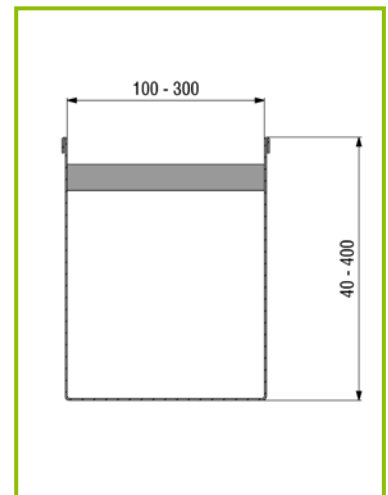
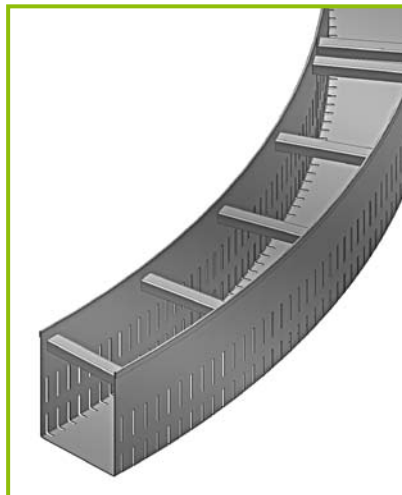


Radial economy box channel with mesh grating. The channel has been specially adapted to the double revolving door.



Roof terrace drainage via slotted channel.

BOX CHANNELS ECONOMY, RADIAL



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PLUS

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STANDARD

SLOTTED
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FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

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GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

DACHFIX®

NON-STANDARD SOLUTIONS.

EXAMPLES OF BESPOKE SOLUTIONS FOR INDIVIDUAL CUSTOMER REQUIREMENTS.

MERCEDES-BENZ MUSEUM STUTTGART: TRENDSETTING ARCHITECTURE WITH DRAINAGE CHANNELS SUPPLIED BY HAURATON

In May 2006, the new Mercedes-Benz museum in Stuttgart was opened and since then has been hailed as a symbol for modern architecture and building technology. It is the largest one-make motorcar museum in the world and is considered one of the most important tourist attractions in Stuttgart. Every year, the museum expects up to 720 000 visitors from all over the world at the historic site in the immediate proximity of the factory in Untertürkheim, which is considered the cradle of the automobile.

Modern architecture demands special solutions for many details - and surface drainage is no exception. For the external works of the Mercedes-Benz museum the architects specified drainage channels from HAURATON. The company developed technically very advanced channel systems that visually integrate perfectly into the overall design whilst meeting all other requirements, such as providing a slotted façade channel with longitudinal grating and removable side wall.



A masterpiece of modern architecture - the Mercedes-Benz museum in Stuttgart.



The stainless steel drainage channels were developed according to site-specific requirements.



Water from the façade is drained via channels with longitudinal grating and removable sidewall. Special inspection boxes allow access to the channels for servicing.

Should any of the façade panels become damaged, it can be replaced with the channel remaining in place without any difficulties.

The hydraulic capacity requirements were calculated using a highly sophisticated hydraulics program which has been developed especially for HAURATON.

The unusual architecture of the Mercedes-Benz museum was highly demanding in terms of design, production, logistics and installation. All products were designed with the help of a CAD program, illustrating each item in three dimensions; this made it possible, at an early stage in the design, to check for visual, functional and technical requirements. This process made it possible to involve the architects and client at an early stage until finally a specification for the desired channel could be put out to tender. From the initial survey, the project-specific manufacture of the channels and their installation through to the final handover, members of the HAURATON project team provided their support for the companies involved in the project.

During construction on the building site for the Mercedes-Benz museum, the company expertly managed to resolve numerous situations that could not be foreseen and required a flexible ad-hoc input. For example, the unusual shape of the museum façade was highly demanding with respect to producing an accurate site survey. Each of the façade channels, which add up to a total length of 380 m, is unique in terms of shape, length and mitre cut. It required the perfect cooperation between the HAURATON project team, the CAD team as well as the production side to manufacture and deliver these channels within a very short delivery deadline.

Overall, the following HAURATON drainage channels were installed at the Mercedes-Benz museum:

- 1500 m of individually manufactured channels in straight, polygonal and radial shapes
- 220 m FASERFIX SUPER channels

**RECYFIX®
PLUS**

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**SLOTTED
CHANNELS**

**FASERFIX®
STANDARD**

**RECYFIX®POINT
FASERFIX®POINT**

DACHFIX®

**RECYFIX®
GREEN SUPER**

**RECYFIX®
GREEN STANDARD**

**RECYFIX®
STREIF**

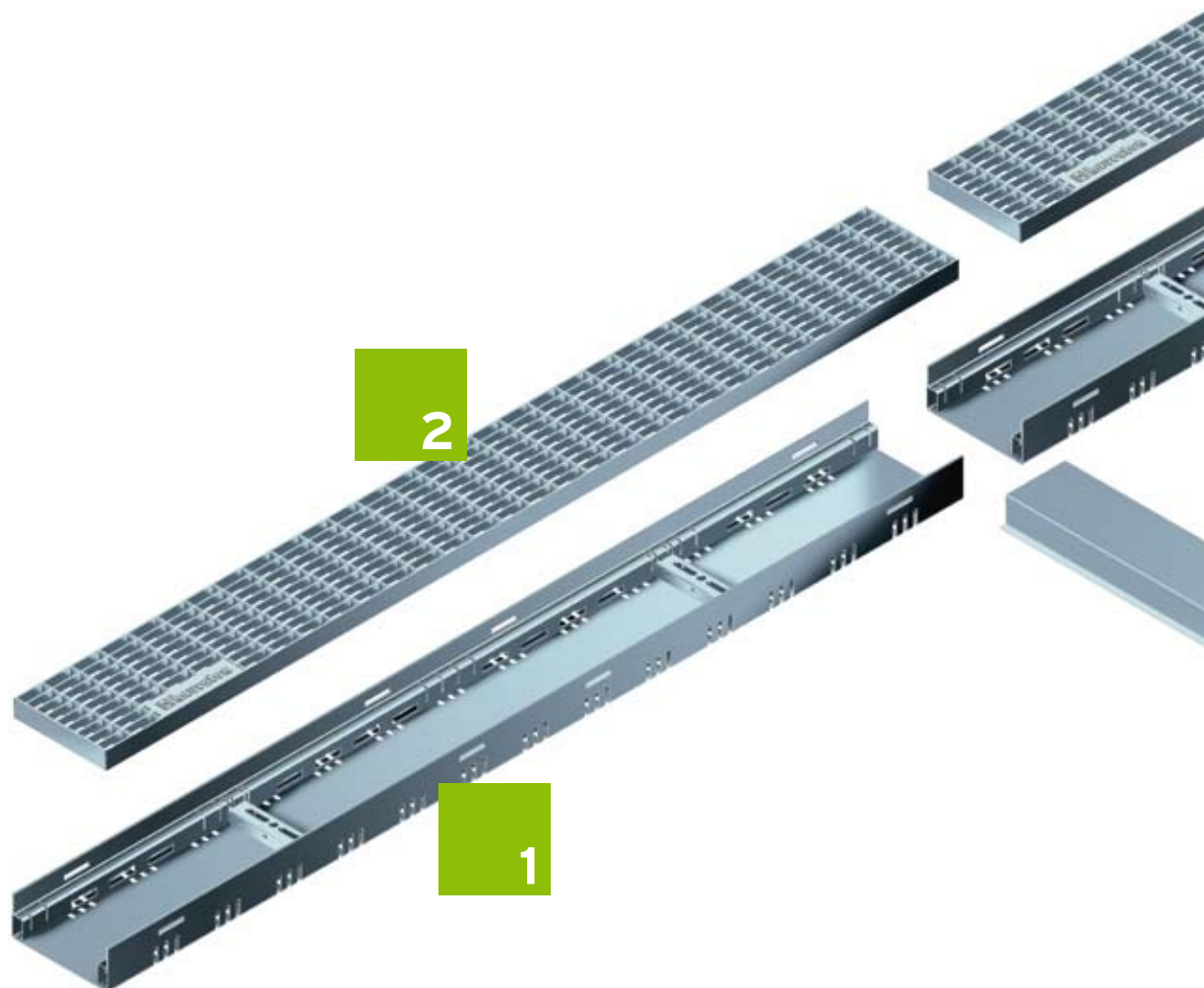
LINEFIX®

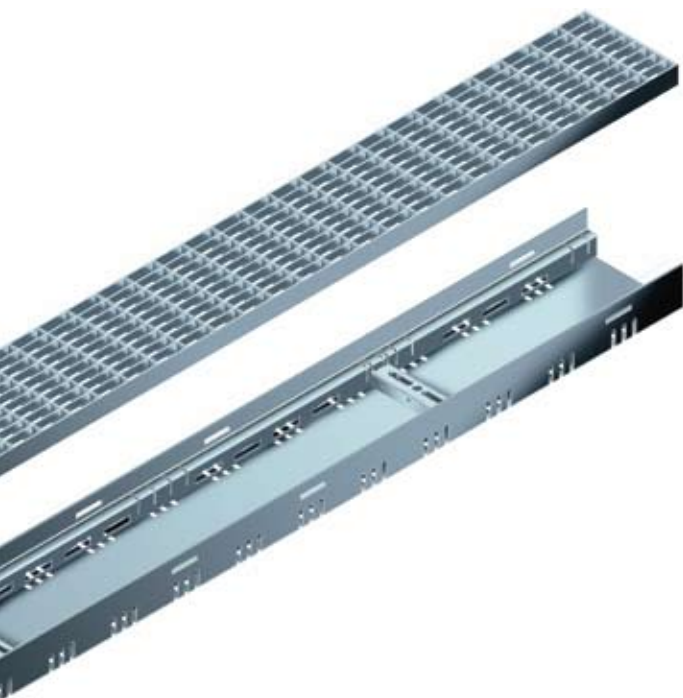
DACHFIX®

UNIQUE AND RELIABLE DRAINAGE.

FOR DRAINING ROOF TERRACES AND FAÇADES.

DACHFIX channels comply with the guidelines for flat roof construction and are suitable for pedestrian and wheelchair traffic.





1

■ Channels made of galvanised steel, stainless steel or PE-PP with fix installation height with or without height adjustment, big installation heights for economic installation

2

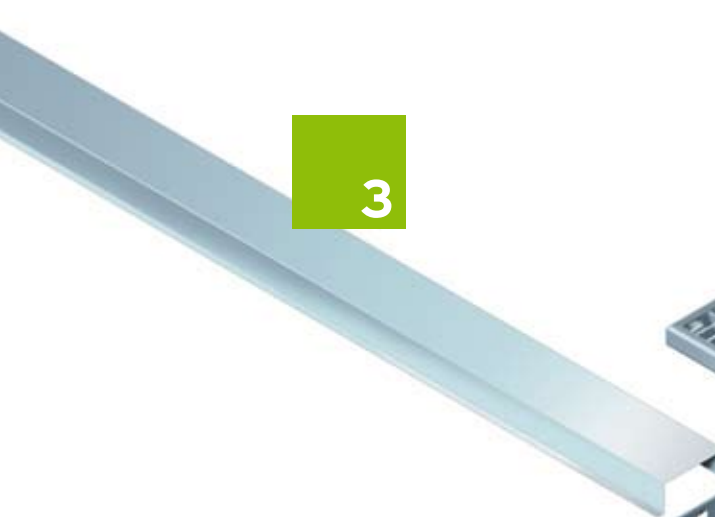
■ different grating options, for example mesh gratings

3

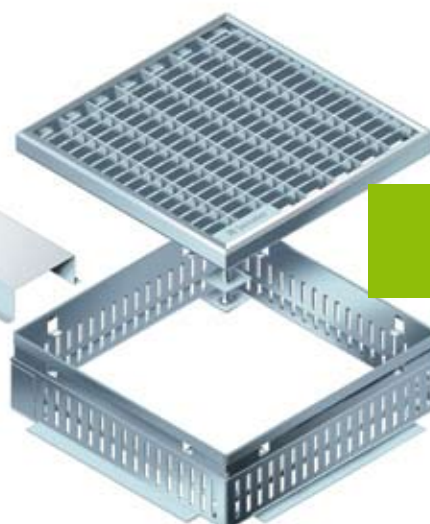
■ Intersection channel for backwater free inlet of the water to the outlet

4

■ DACHFIX GULLY extension made of galvanised or stainless steel, with fix installation height with or without height adjustment, fitting grating options



3



4

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

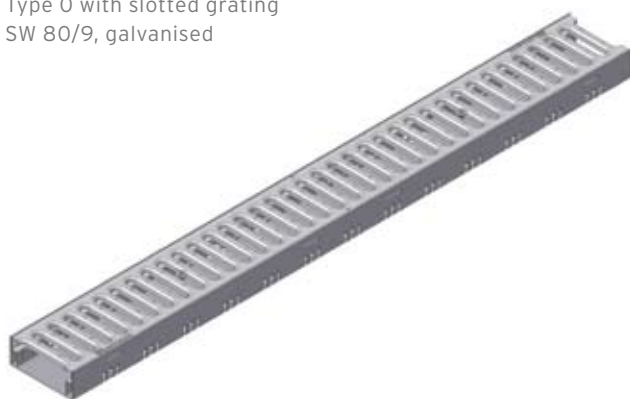
RECYFIX®
STREIF

LINEFIX®

DACHFIX®

DACHFIX® - Channel with slotted grating, not height adjustable 45 mm

Type 0 with slotted grating
SW 80/9, galvanised

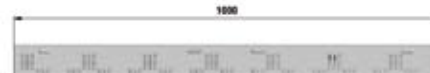
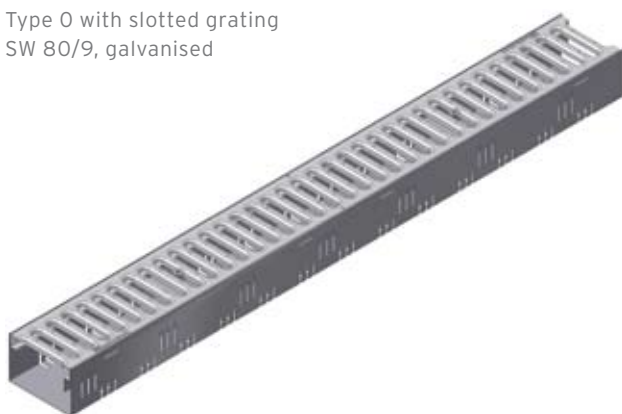


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 0 with slotted grating SW 80/9, galvanised | 1500 | 115 | 45 | 5,0 | 61010 |
| Type 0 with slotted grating SW 80/9, galvanised | 1000 | 115 | 45 | 3,4 | 61012 |
| Type 0 with slotted grating SW 80/9, galvanised | 500 | 115 | 45 | 1,7 | 61014 |
| Type 0 with slotted grating SW 80/9, stainless steel | 1500 | 115 | 45 | 5,0 | 61210 |
| Type 0 with slotted grating SW 80/9, stainless steel | 1000 | 115 | 45 | 3,3 | 61212 |
| Type 0 with slotted grating SW 80/9, stainless steel | 500 | 115 | 45 | 1,7 | 61214 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX® - Channel with slotted grating, not height adjustable 75 mm

Type 0 with slotted grating
SW 80/9, galvanised



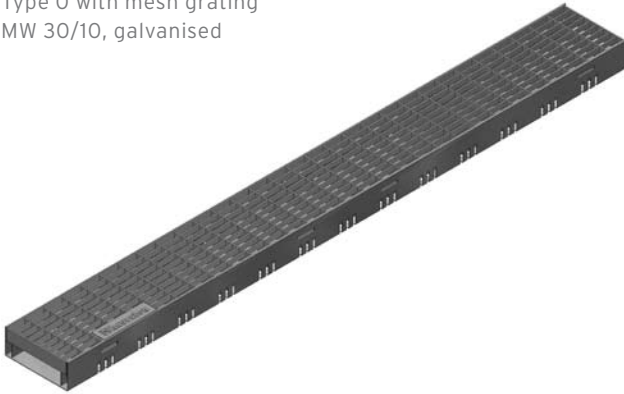
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 0 with slotted grating SW 80/9, galvanised | 1500 | 115 | 75 | 5,7 | 61110 |
| Type 0 with slotted grating SW 80/9, galvanised | 1000 | 115 | 75 | 3,8 | 61112 |
| Type 0 with slotted grating SW 80/9, galvanised | 500 | 115 | 75 | 2,0 | 61114 |
| Type 0 with slotted grating SW 80/9, stainless steel | 1500 | 115 | 75 | 5,7 | 61310 |
| Type 0 with slotted grating SW 80/9, stainless steel | 1000 | 115 | 75 | 3,8 | 61312 |
| Type 0 with slotted grating SW 80/9, stainless steel | 500 | 115 | 75 | 2,0 | 61314 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX®

DACHFIX® - Channel with mesh grating, not height adjustable 45 mm

Type 0 with mesh grating
MW 30/10, galvanised

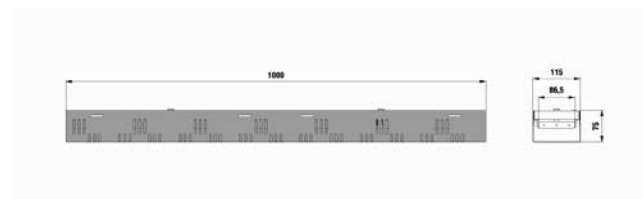
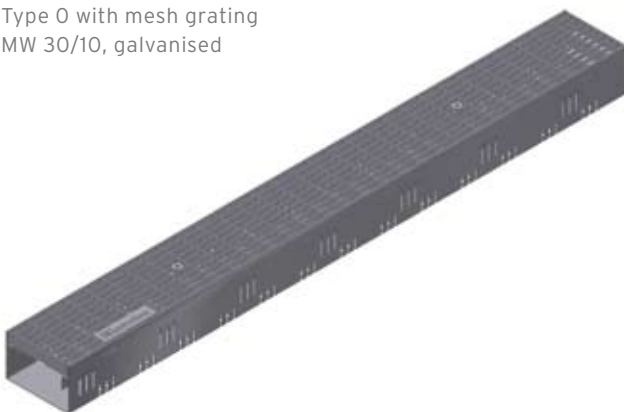


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 30/10, galvanised | 1500 | 115 | 45 | 6,9 | 61020 |
| Type 0 with mesh grating MW 30/10, galvanised | 1000 | 115 | 45 | 4,6 | 61022 |
| Type 0 with mesh grating MW 30/10, galvanised | 500 | 115 | 45 | 2,3 | 61024 |
| Type 0 with mesh grating MW 30/10, stainless steel | 1500 | 115 | 45 | 7,0 | 61220 |
| Type 0 with mesh grating MW 30/10, stainless steel | 1000 | 115 | 45 | 4,7 | 61222 |
| Type 0 with mesh grating MW 30/10, stainless steel | 500 | 115 | 45 | 2,4 | 61224 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX® - Channel with mesh grating, not height adjustable 75 mm

Type 0 with mesh grating
MW 30/10, galvanised



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 30/10, galvanised | 1500 | 115 | 75 | 7,6 | 61120 |
| Type 0 with mesh grating MW 30/10, galvanised | 1000 | 115 | 75 | 5,1 | 61122 |
| Type 0 with mesh grating MW 30/10, galvanised | 500 | 115 | 75 | 2,6 | 61124 |
| Type 0 with mesh grating MW 30/10, stainless steel | 1500 | 115 | 75 | 7,8 | 61320 |
| Type 0 with mesh grating MW 30/10, stainless steel | 1000 | 115 | 75 | 5,2 | 61322 |
| Type 0 with mesh grating MW 30/10, stainless steel | 500 | 115 | 75 | 2,6 | 61324 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

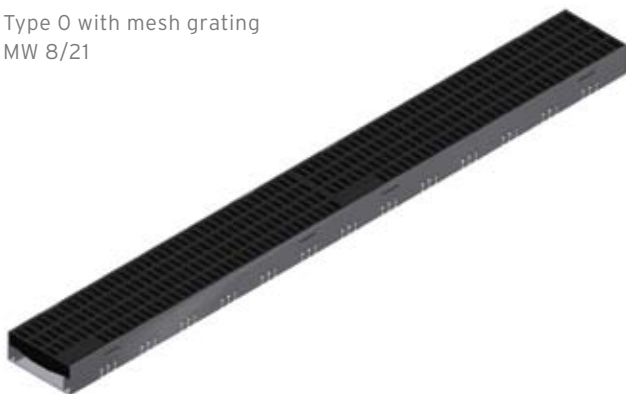
RECYFIX®
STREIF

LINEFIX®

DACHFIX®

DACHFIX® - Channel made of stainless steel with PE-PP grating, black, not height adjustable 45 mm

Type 0 with mesh grating
MW 8/21

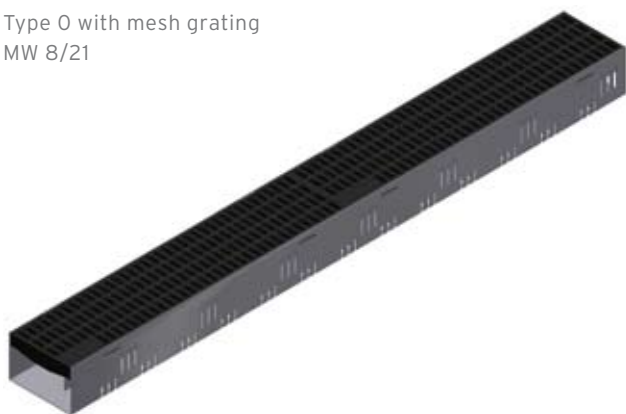


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|----------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 8/21 | 1500 | 115 | 45 | 4,4 | 61230 |
| Type 0 with mesh grating MW 8/21 | 1000 | 115 | 45 | 3,0 | 61232 |
| Type 0 with mesh grating MW 8/21 | 500 | 115 | 45 | 1,5 | 61234 |

The quality of the stainless steel material is according to CNS 1.4301.

DACHFIX® - Channel made of stainless steel with PE-PP grating, black, not height adjustable 75 mm

Type 0 with mesh grating
MW 8/21



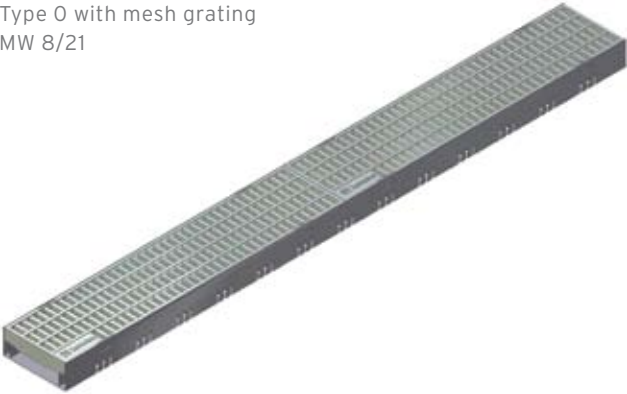
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|----------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 8/21 | 1500 | 115 | 75 | 5,1 | 61330 |
| Type 0 with mesh grating MW 8/21 | 1000 | 115 | 75 | 3,5 | 61332 |
| Type 0 with mesh grating MW 8/21 | 500 | 115 | 75 | 1,8 | 61334 |

The quality of the stainless steel material is according to CNS 1.4301.

DACHFIX®

DACHFIX® - Channel made of stainless steel with PE-PP grating, silver, not height adjustable 45 mm

Type 0 with mesh grating
MW 8/21

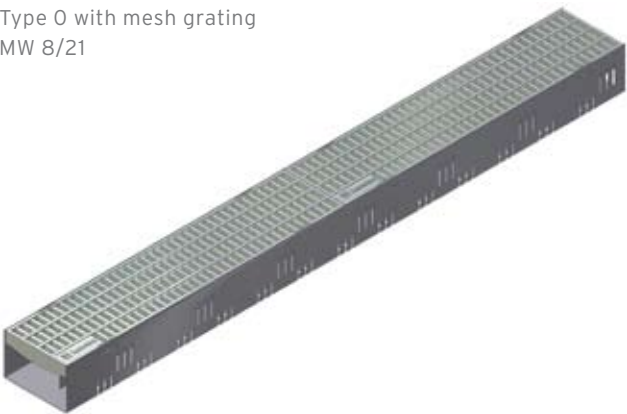


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|----------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 8/21 | 1500 | 115 | 45 | 4,4 | 61240 |
| Type 0 with mesh grating MW 8/21 | 1000 | 115 | 45 | 3,0 | 61242 |
| Type 0 with mesh grating MW 8/21 | 500 | 115 | 45 | 1,5 | 61244 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX® - Channel made of stainless steel with PE-PP grating, silver, not height adjustable 75 mm

Type 0 with mesh grating
MW 8/21



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|----------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 0 with mesh grating MW 8/21 | 1500 | 115 | 75 | 5,1 | 61340 |
| Type 0 with mesh grating MW 8/21 | 1000 | 115 | 75 | 3,5 | 61342 |
| Type 0 with mesh grating MW 8/21 | 500 | 115 | 75 | 1,8 | 61344 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

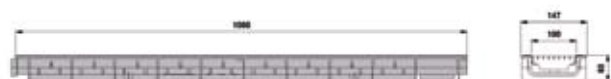
DACHFIX®

DACHFIX® - Channel made of PE-PP, not height adjustable 60 mm

Type 0/60 PE with
slotted grating SW 80/9,
galvanised



Type 0/60 PE with
mesh grating MW 30/10,
galvanised



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 0/60 PE with slotted grating SW 80/9, galvanised | 1000 | 147 | 60 | 3,0 | 61412 |
| Type 0/60 PE with slotted grating SW 80/9, stainless steel | 1000 | 147 | 60 | 3,0 | 61413 |
| Type 0/60 PE with mesh grating MW 30/10, galvanised | 1000 | 147 | 60 | 4,2 | 61422 |
| Type 0/60 PE with mesh grating MW 30/10, stainless steel | 1000 | 147 | 60 | 4,2 | 61423 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX®

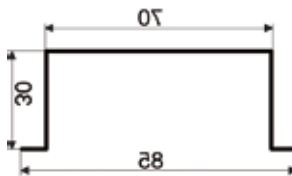
DACHFIX® - Accessories



Adjusting set for DACHFIX
Type 0, height 75 mm



Cross-intersection channel



End cap



End cap

| | Length mm | Width mm | Height mm | Weight kg | Article No. gal- vanised | Article No. stainless steel |
|--|--------------|-------------|--------------|--------------|--------------------------------|-----------------------------------|
| End cap | - | 115 | 45 | - | 61009 | 61209 |
| End cap | - | 115 | 75 | - | 61109 | 61309 |
| End cap closed, made of PE-PP, for type 60 | - | 147 | 60 | - | 40284 | - |
| Cross-intersection channel | 1000 | 70 | 30 | 0,7 | 60800 | 60801 |
| Adjusting set for DACHFIX Type 0, height 75 mm | - | - | - | 0,2 | 61150 | 61350 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

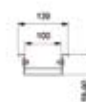
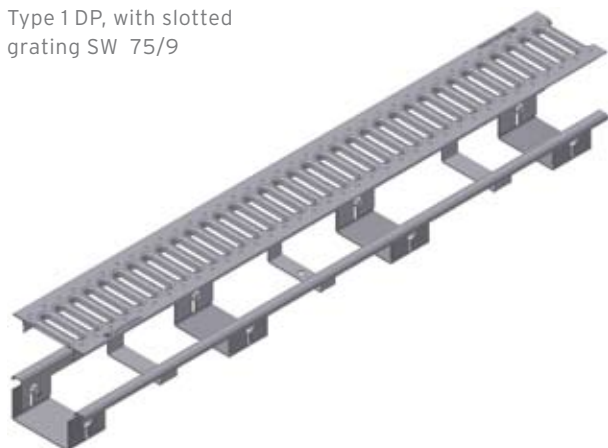
RECYFIX®
STREIF

LINEFIX®

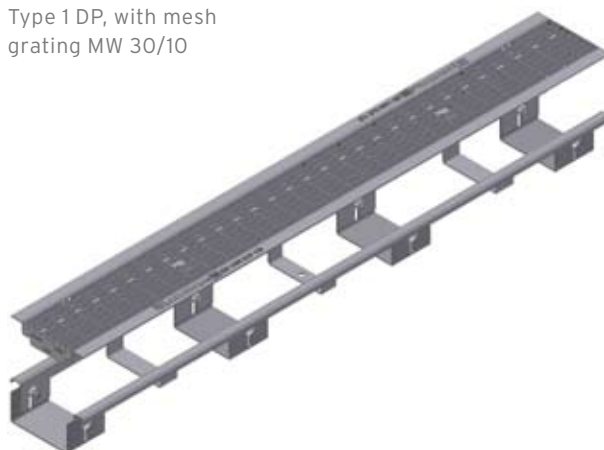
DACHFIX®STANDARD

DACHFIX®STANDARD - Channel Type 1, galvanised, height adjustable

Type 1 DP, with slotted
grating SW 75/9



Type 1 DP, with mesh
grating MW 30/10

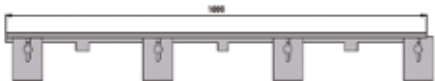
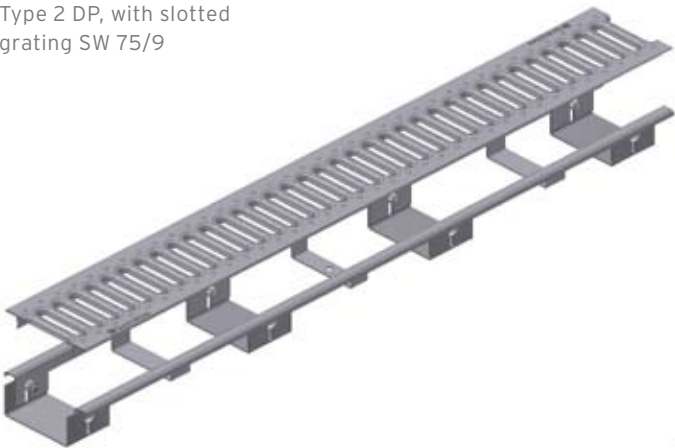


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 1 DP, with slotted grating SW 75/9 | 1000 | 139 | 58 - 90 | 4,7 | 60070 |
| Type 1 DP, with slotted grating SW 75/9 | 500 | 139 | 58 - 90 | 2,4 | 60073 |
| Type 1 DP, with mesh grating MW 30/10 | 1000 | 139 | 58 - 90 | 6,6 | 60080 |
| Type 1 DP, with mesh grating MW 30/10 | 500 | 139 | 58 - 90 | 3,1 | 60083 |
| Type 1 DP, with perforated grating diam. 6 | 1000 | 139 | 58 - 90 | 5,6 | 60078 |

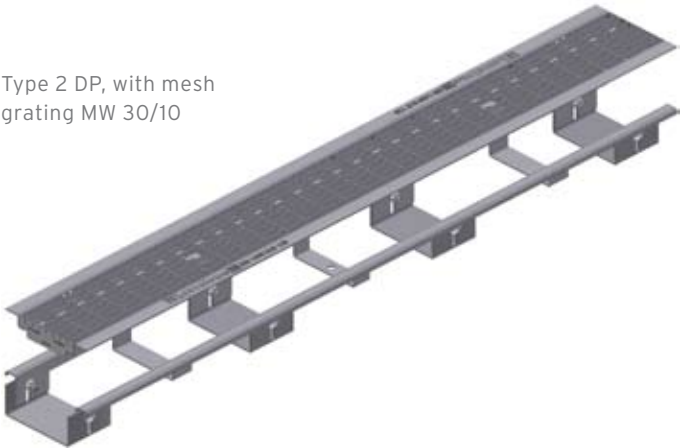
DACHFIX®STANDARD

DACHFIX®STANDARD - Channel Type 2, galvanised, height adjustable

Type 2 DP, with slotted
grating SW 75/9



Type 2 DP, with mesh
grating MW 30/10



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Type 2 DP, with slotted grating SW 75/9 | 1000 | 139 | 110 - 160 | 5,3 | 60170 |
| Type 2 DP, with mesh grating MW 30/10 | 1000 | 139 | 110 - 160 | 7,2 | 60180 |
| Type 2 DP, with perforated grating diam. 6 | 1000 | 139 | 110 - 160 | 8,7 | 60178 |

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

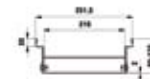
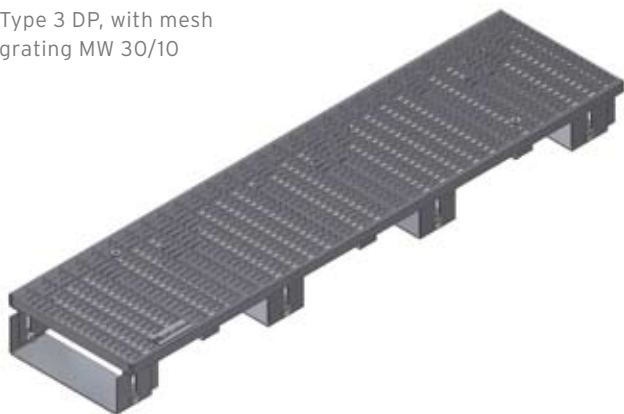
RECYFIX®
STREIF

LINEFIX®

DACHFIX®STANDARD

DACHFIX®STANDARD - Channel Type 3, galvanised, height adjustable

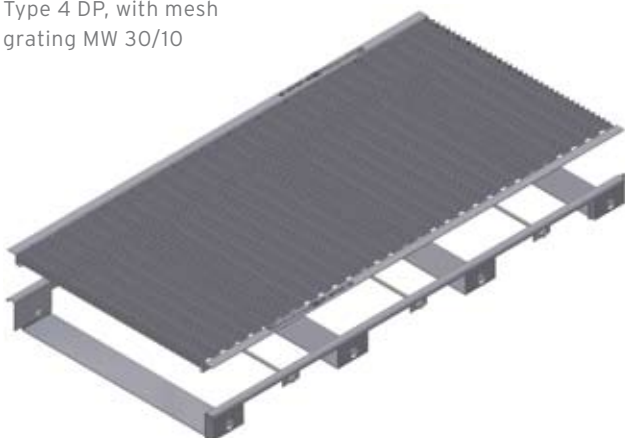
Type 3 DP, with mesh grating MW 30/10



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 3 DP, with mesh grating MW 30/10 | 1000 | 252 | 90 - 130 | 9,2 | 60280 |

DACHFIX®STANDARD - Channel Type 4, galvanised, height adjustable

Type 4 DP, with mesh grating MW 30/10

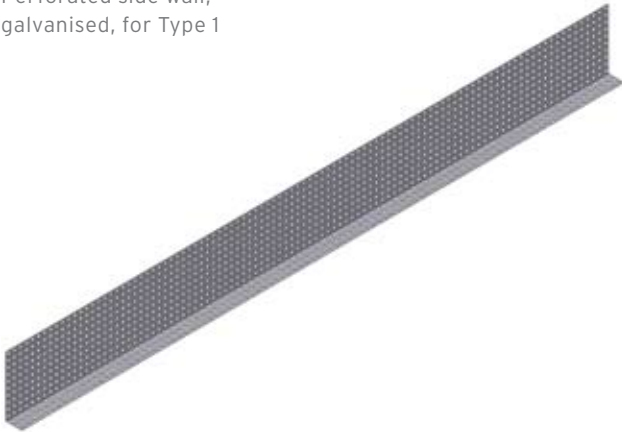


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---------------------------------------|--------------|-------------|--------------|--------------|----------------|
| Type 4 DP, with mesh grating MW 30/10 | 1000 | 500 | 70 - 110 | 1,0 | 60380 |

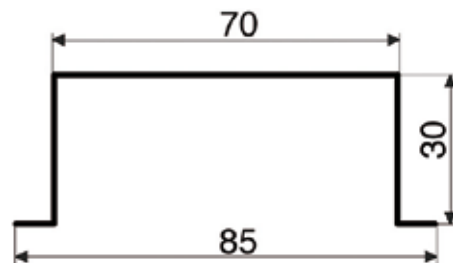
DACHFIX®STANDARD

DACHFIX®STANDARD - Accessories

Perforated side wall,
galvanised, for Type 1



Cross-intersection channel



| | Length mm | Width mm | Height mm | Weight kg | Article No. galvanised | Article No. stainless steel |
|--|--------------|-------------|--------------|--------------|---------------------------|--------------------------------|
| Perforated side wall, galvanised, for Type 1 | 1000 | 29 | 50 | 0,3 | 60700 | - |
| Perforated side wall, galvanised, for Type 1 | 500 | 29 | 50 | 0,2 | 60706 | - |
| Perforated side wall, galvanised, for Type 2 | 1000 | 27 | 100 | 0,4 | 60721 | - |
| Perforated side wall, galvanised, for Type 3/4 | 1000 | 32 | 70 | 0,6 | 60741 | - |
| Cross-intersection channel | 1000 | 70 | 30 | 0,7 | 60800 | 60801 |

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

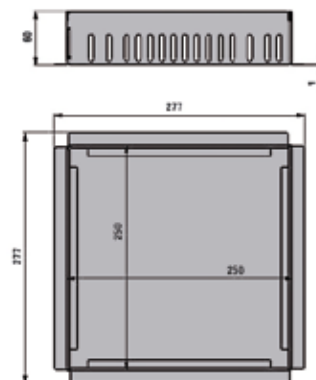
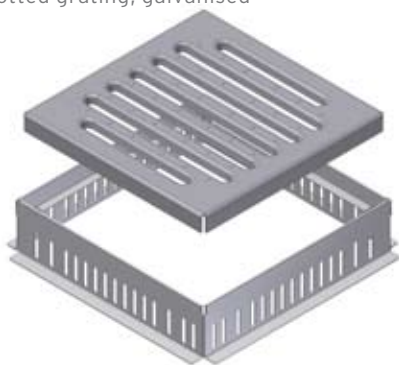
RECYFIX®
STREIF

LINEFIX®

DACHFIX®POINT

DACHFIX®POINT - Type 1, not height adjustable 60 mm, 250 x 250 mm

Gully extension Type 1 with slotted grating, galvanised

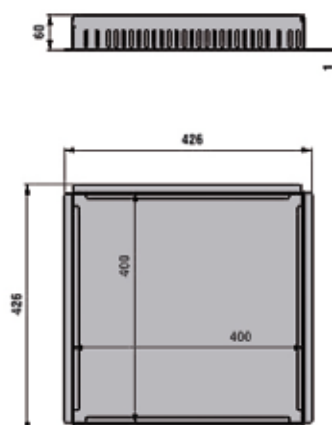
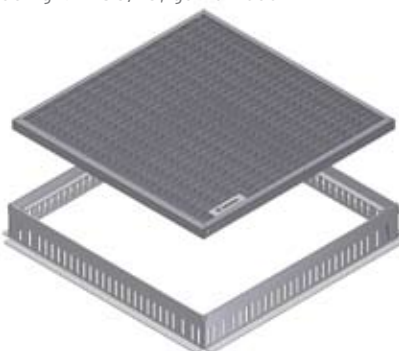


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Gully extension Type 1 with slotted grating, galvanised | 250 | 250 | 60 | 1,7 | 60620 |
| Gully extension Type 1 with mesh grating, MW 30/10, galvanised | 250 | 250 | 60 | 1,4 | 60610 |
| Gully extension Type 1 with slotted grating, stainless steel | 250 | 250 | 60 | 1,7 | 60625 |
| Gully extension Type 1 with mesh grating MW 30/10, stainless steel | 250 | 250 | 60 | 1,4 | 60615 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX®POINT - Type 2, not height adjustable 60 mm, 400 x 400 mm

Gully extension Type 2 with mesh grating MW 30/10, galvanised



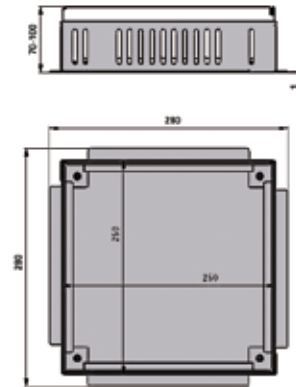
| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Gully extension Type 2 with mesh grating MW 30/10, galvanised | 400 | 400 | 60 | 5,7 | 60640 |
| Gully extension Type 2 with mesh grating MW 30/10, stainless steel | 400 | 400 | 60 | 5,7 | 60645 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX®POINT

DACHFIX®POINT - Type 1, height adjustable, 250 x 250 mm

Gully extension Type 1 with slotted grating, galvanised

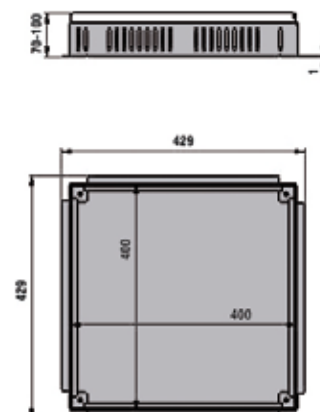
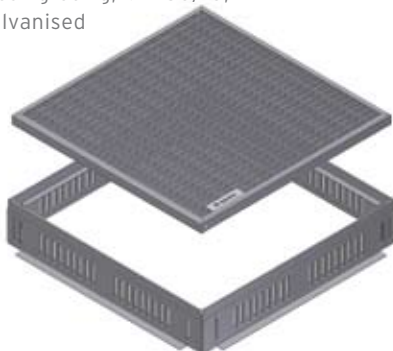


| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Gully extension Type 1 with slotted grating, galvanised | 250 | 250 | 70 - 110 | 4,3 | 60542 |
| Gully extension Type 1 with mesh grating, MW 30/10, galvanised | 250 | 250 | 70 - 110 | 4,0 | 60541 |
| Gully extension Type 1 with slotted grating, stainless steel | 250 | 250 | 70 - 100 | 4,3 | 60547 |
| Gully extension Type 1 with mesh grating, MW 30/10, stainless steel | 250 | 250 | 70 - 100 | 4,0 | 60546 |

The quality of the stainless steel material is according CNS 1.4301.

DACHFIX®POINT - Type 2, height adjustable, 400 x 400 mm

Gully extension Type 2 with mesh grating, MW 30/10, galvanised



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Gully extension Type 2 with mesh grating, MW 30/10, galvanised | 400 | 400 | 70 - 100 | 7,2 | 60591 |
| Gully extension Type 2 with mesh grating, MW 30/10, stainless steel | 400 | 400 | 70 - 100 | 7,2 | 60596 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
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RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX® GREEN SUPER

VERY STRONG AND ENVIRONMENTALLY FRIENDLY.

GROUND REINFORCEMENT AND EFFICIENT SOAKAWAY FOR CAR/COACH PARKS,
SERVICE ROADS AND INDUSTRIAL AREAS.



AT A GLANCE

- ✓ High draining capacity
- ✓ Can be filled with different materials
- ✓ Easy to install
- ✓ Durable and resistant to weather
- ✓ Less weight than grass concrete systems



RECYFIX® GREEN SUPER

VERY STRONG AND ENVIRONMENTALLY FRIENDLY.

GROUND REINFORCEMENT AND EFFICIENT SOAKAWAY FOR CAR/COACH PARKS, SERVICE ROADS AND INDUSTRIAL AREAS.

REQUIREMENTS

Today more than ever we are concerned about the increasing acreage of surface area covered over. The increased incidence of flooding catastrophes in the wake of prolonged rainfall periods indicates that too much water runs directly into the rivers and lakes rather than seeping into the ground naturally. The continuing extension of infrastructure elements in addition to construction activities on green-field sites for residential or commercial purposes are responsible for the fact that not enough precipitation water can be absorbed by the ground. The ground is being covered over for vehicular traffic using impervious surface materials. Today we are aware of an increased responsibility to take environmental protection seriously and preserve as much of the natural ground seepage areas as possible or to reclaim new ones. In order to reinforce the ground we need products with a high drainage capacity and - at the same time and depending on the exposure to traffic - sufficient strength to withstand the expected static and dynamic loads.

Some surfaces also have to stand up to the loads imposed by larger vehicles, such as HGVs, coaches or agricultural vehicles. The turf in parkland areas generally requires more attention. For this reason, landscape architects increasingly stipulate mineral-based fill materials, such as chippings. By choosing different colours and materials it is possible to make use of this element in order to achieve certain design effects. In view of concerns for the ecology and careful use of resources, our products are manufactured from 100% recycled materials, which can again be recycled at the end of the products' service life. In order to ensure the consistency of our raw materials, we only use industrial recycled PE.



RECYFIX GREEN SUPER blocks are particularly suitable for filling with mineral materials such as decorative gravel or chippings.

SOLUTION

RECYFIX GREEN SUPER is ideal for reinforcing driveways suitable for vehicles and allowing fast open drainage at the same time. The blocks are manufactured from industrial recycled material and can again be recycled at the end of their useful life. The recycled material used is highly flexible. The combination of materials and construction used in the DBGM-registered design is capable of absorbing longitudinal expansion and is strong enough to support heavy vehicles. Owing to their solid construction these blocks can withstand higher dynamic loads compared to conventional plastic lattice turf blocks and are therefore suitable for installation in surfaces used by commercial or agricultural vehicles. Compared to grass concrete systems RECYFIX GREEN SUPER is extremely lightweight and hence easy to transport and lay. Filling materials can be gravel, chippings, stone, earth or turf – nearly all available materials, which will hardly be visible in contrast to neighbouring surfaces.



The lattice turf blocks feature integrated anchors for safe location in the ground as well as a linkage system for holding the blocks together. Where the blocks are laid on sloping ground or on embankments they can be additionally fastened with Anchoring Pegs. RECYFIX GREEN SUPER has excellent ground drainage characteristics, leaving most of the reinforced ground open for water percolation. This means that precipitation water can find its way to the natural reservoirs in the ground rather than being channelled away to rivers and lakes – an active contribution to flood protection.

APPLICATION AREAS

All traffic areas with occasional usage, such as exhibition areas, parking lots for passenger cars, camping places, trailer home parks, temporary parking areas, driveways on golf courses, access ways for fire fighting vehicles and rescue vehicles etc.



RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

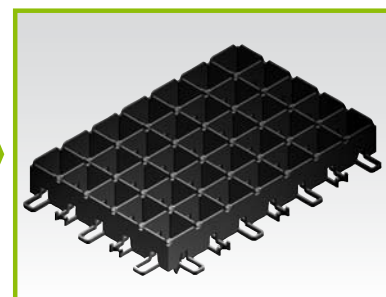
RECYFIX®
STREIF

LINEFIX®

RECYFIX® GREEN SUPER

VERY STRONG AND ENVIRONMENTALLY FRIENDLY.

GROUND REINFORCEMENT AND EFFICIENT SOAKAWAY FOR CAR/COACH PARKS, SERVICE ROADS AND INDUSTRIAL AREAS.

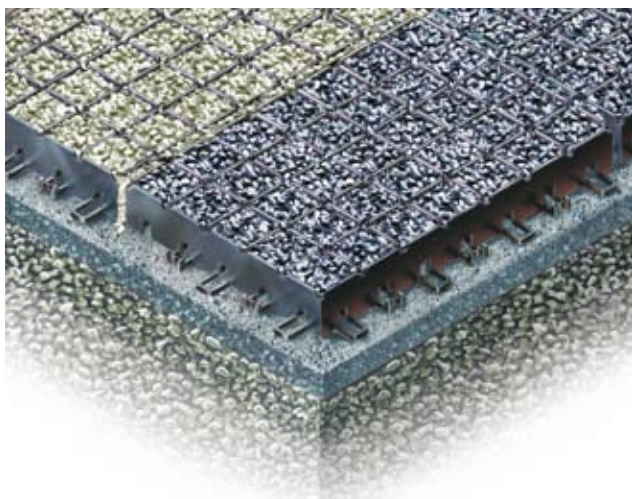


100 % RECYCLED PE

RECYFIX GREEN SUPER are made of 100% industrial recycled PE. The material is UV-stabilised and environmentally neutral – green light for soil and ground water. When the product has to be disposed off there is another bonus point for the environment – RECYFIX GREEN SUPER can be recycled 100%. The excellent properties of this recycled material ensure very good durability and a long service life. It will not break, crack or split and even high temperature fluctuations, UV-radiation, frost and road salt cannot damage lattice turf blocks if used appropriately.

DIFFERENT MATERIALS CAN BE USED FOR FILLING

For filling RECYFIX GREEN SUPER blocks, mineral materials such as chippings, gravel or stone are particularly suited, depending on the requirements for the reinforced area. A natural look of greenery can be achieved with seeded lawn or turf with the appropriate care. Either way, the areas reinforced with the blocks will retain most of their drainage capacity.



DRIVE ON IMMEDIATELY AFTER INSTALLATION

Once RECYFIX GREEN SUPER has been laid and filled with the respective mineral materials it can support loads to its capacity immediately. For this reason they are well suited for temporary parking areas that may be required for trade fairs, festivities etc.



FAST AND EASY TO LAY

RECYFIX GREEN SUPER blocks are light-weight. That means installation only requires simple tools and little effort to achieve a very large output. There is no need for special machines to lay the blocks. The lattice turf blocks have been packaged in a way that makes it possible to pick them up directly from the pallet before laying them. In this way, even large areas can be covered within a short space of time.

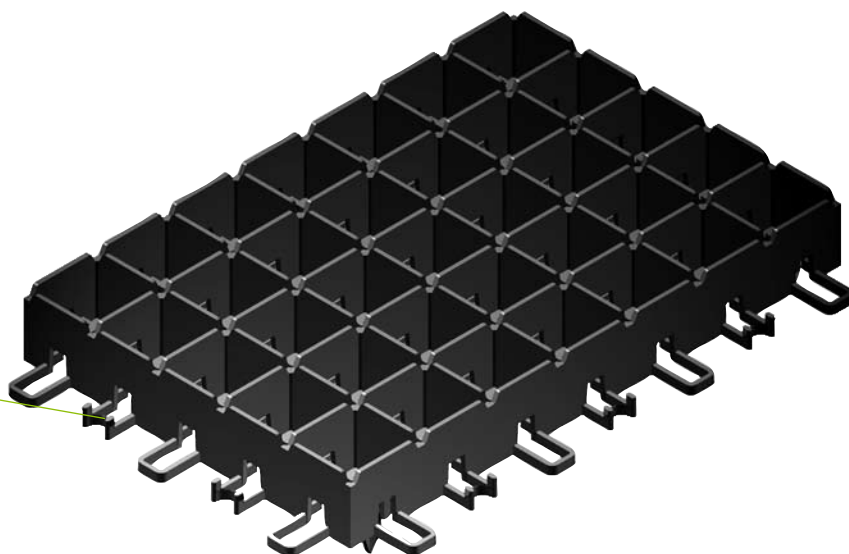
ECOLOGICAL AND ECONOMICALLY SENSIBLE

Today, many municipalities and local authorities grant reduced rates and public funds for the purpose of creating surfaces that retain their draining properties so that the installation of RECYFIX GREEN SUPER also makes financial sense.



SAFELY ANCHORED TO THE GROUND

RECYFIX GREEN SUPER blocks are equipped with integral anchors that ensure safe positioning on the ground. Where the blocks are laid on sloping ground or embankments, additional anchoring is possible with Anchoring Pegs.



TECHNICAL DATA

□ RECYFIX GREEN SUPER

Material: 100 % industrial recycled PE, highly impact resistant, UV-stabilised, Colour: black

The recycling process may result in variations in colour.

Openings for root penetration: > 50 %

Load-bearing capacity:

tested distributed load when installed: max. 4,000 kN/m²

Dimensions: L 600 x W 400 x H 75 mm

Coverage: approx. 4 blocks per m², including joints

Weight: approx. 2.5 kg/block article no.: 40060

□ RECYFIX Anchoring Pegs

for additional anchoring on sloping ground

Material: 100 % pure recycled ABS-plastic, highly impact-resistant

Colour: black

Length: 250 mm

Weight: approx. 20 g/peg article no.: 40020

TENDER PROPOSALS

1. ____ m² =
____ no.

RECYFIX GREEN SUPER

Turf honeycomb made of 100 % industrial recycled PE, highly impact-resistant, UV-stabilised, also suitable for mineral fill materials, with joint connection system, colour black, tested distributed load max. 4000 kN/m², l/w/h 600x400x75 mm, art. no. 40060.

To be supplied and laid in accordance with the manufacturer's installation instructions. Coverage approx. 4 blocks per m². Quality in acc. with DIN EN ISO 9001:2000

Manufactured by: Hauraton GmbH & Co. KG

P. O. Box 16 61

D-76437 Rastatt, Germany

Tel.: +49-7222-958-0

Fax: +49-7222-958-102

E-Mail: export@hauraton.com

2. ____ no.

RECYFIX GREEN ANCHORING PEGS

made of 100% pure recycled ABS-plastic, highly impact-resistant, length 250 mm, art. no. 40020

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

RECYFIX® GREEN STANDARD

ENVIRONMENTALLY FRIENDLY, LIGHT AND ROBUST.

GRASS REINFORCEMENT AND SOAKAWAY FOR AREAS WITH LIGHT TRAFFIC.



AT A GLANCE

- ✓ Super light-weight, hence easy and quick to install
- ✓ Easy to transport
- ✓ Proportion of lawn 90 %
- ✓ Resistant to weather
- ✓ Erosion protection, stabilises the turf



RECYFIX® GREEN STANDARD

ENVIRONMENTALLY FRIENDLY, LIGHT AND ROBUST

GRASS REINFORCEMENT AND SOAKAWAY FOR AREAS WITH LIGHT TRAFFIC.

REQUIREMENTS

Green space is an important part of the human environment. Sealing areas with light traffic usage with concrete / asphalt / paving slabs means a further reduction of vital green space. Decentralised ground seepage of precipitation water is an ecological requirement of increasing importance. In view of concerns for the ecology, modern innovative products should not only be manufactured from 100 % recycled HD-PE, but should also be fully recyclable themselves. In order to ensure consistent quality of the raw material, only non-mixed recycled materials should be used.

SOLUTION

RECYFIX GREEN STANDARD can be used to turn all occasional parking areas for passenger cars in public and domestic spaces into reinforced lawn areas for parking. Whilst the substrate is reinforced, the turf component is still 90%. And with RECYFIX GREEN STANDARD reinforcement, these lawn areas can support substantial weight. RECYFIX GREEN STANDARD meets the requirements of DIN 14090. Compared to paved surfaces, reinforced lawn areas have a lower run-off factor, which allows precipitation water to seep into the substrate provided the base layers are not impervious.





RECYFIX GREEN STANDARD can be used to reinforce grassed areas whilst allowing water to seep into the ground.

APPLICATION AREAS

All grassed areas with occasional vehicular usage such as car parking spaces but also pedestrian pathways and embankments etc. Also often used for emergency access ways for fire engines and rescue vehicles, for terraces, urban green spaces around trees, lawns and pathways in sports grounds (e.g. golf course pathways), camping places, holiday resorts, reinforcements for embankments and river banks.

These reinforcements are not suitable for filling with chippings or for areas with regular vehicular usage. In these cases we recommend the use of RECYFIX GREEN SUPER.

DIY INSTALLATION AT AN EQUESTRIAN PROPERTY



RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

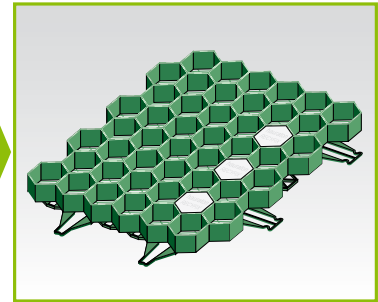
RECYFIX®
STREIF

LINEFIX®

RECYFIX® GREEN STANDARD

ENVIRONMENTALLY FRIENDLY, LIGHT AND ROBUST

GRASS REINFORCEMENT AND SOAKAWAY FOR AREAS WITH LIGHT TRAFFIC.



100% RECYCLED HD-PE

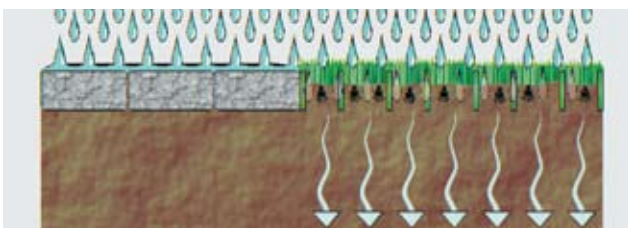
RECYFIX GREEN STANDARD consists of 100 % pure recycled HD-PE produced from bottle crates. The material is UV-stabilised and environmentally neutral - light green for soil and ground water. When the product has to be disposed off there is another bonus point for the environment - RECYFIX GREEN STANDARD can be recycled 100 %.

TESTED FOR DISTRIBUTED LOADS

RECYFIX GREEN STANDARD is light-weight and consists of a thin-walled mesh. At the same time, the special hexagonal construction on the base makes this reinforcement very strong. The material testing office of LGA Bavaria (Landesgewerbeanstalt Bayern) carried out tests in accordance with DIN 53454 and established possible distributed loads of approx. 200 tonnes per m². RECYFIX GREEN STANDARD is very well suited for grassed areas that are occasionally used for parking passenger cars, particularly in domestic situations. Another popular application is for temporary and short-term parking areas (for example for trade fairs and festivities etc.).

NATURAL DRAINAGE THROUGH GRASSED AREAS: PROTECTS US AND THE ENVIRONMENT

The continuing sealing off of the landscape through the construction of buildings, roads, squares etc. is a subject that concerns us all. The proportion of green space is in



decline - affecting our quality of life. At the same time, flooding events have become more frequent in recent years. One important cause for these events is the sealing up of our landscape. Rainwater does not always have the chance to seep away naturally therefore it becomes runoff and accumulates in the rivers. RECYFIX GREEN STANDARD reinforcement is a step in the right direction. It will reinforce areas with occasional vehicular usage but also retain their character as a green space that is permeable to water.

NO FREQUENT TURF REINSTATEMENT REQUIRED

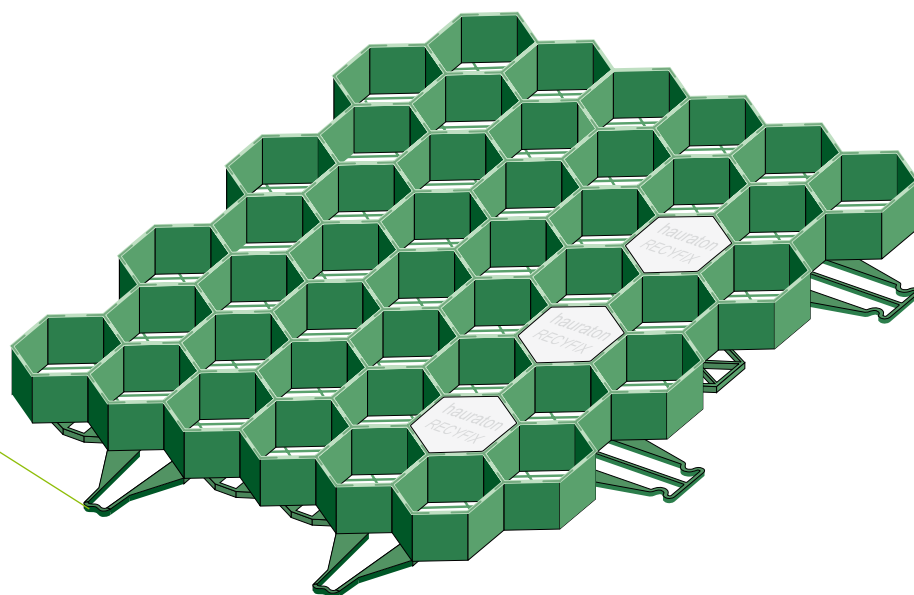
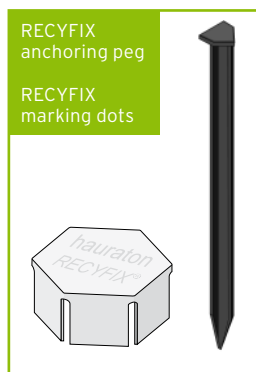
The honeycomb pattern ensures that the individual mats of RECYFIX GREEN STANDARD are interlinked and transfer loads. The resulting structure forms a homogenous surface, which will prevent the formation of ruts and tracks that are inevitable where vehicles drive across unreinforced grass areas. At the same time, grassed areas will be protected against the effects of mole infestations. The turf remains intact and you save later costs for grass reinstatement.

PROTECTION AGAINST EROSION

RECYFIX GREEN STANDARD provides good protection against soil erosion. In banks and embankments they prevent soil from sliding down the slope. For the application on slopes and embankments, RECYFIX anchoring Pegs are available for additional stability and safety.

QUICK AND EASY TO LAY

RECYFIX GREEN STANDARD is very light-weight; for example one mat of size 1 weighs only approx. 610 g, making it possible to cover large areas in very little time. Its special construction means that only simple tools and little effort is needed for installation.



TECHNICAL DATA

□ RECIFYX GREEN STANDARD

Material: 100 % pure recycled HD-PE,
highly impact-resistant, UV-stabilised
Colour: green

The recycling process may result in variations in colour.
Openings for root penetration: over 50 %

Size 1 dimensions: approx. 387 mm x 334 mm x 38 mm

Coverage: approx. 5.9 mats per m²

installation with fixed expansion joint (to compensate
for longitudinal expansion)

Weight: approx. 610 g/piece article no.: 40000

Size 2 dimensions: approx. 387 mm x 555 mm x 38 mm

coverage: approx. 3.8 mats per m²

installation with fixed expansion joint (to compensate
for longitudinal expansion)

Weight: approx. 1000 g/piece article no.: 40005

RECIFYX MARKING DOTS

to provide a visual demarcation between parking lots etc.

Material: 100 % HD-PE,
highly impact-resistant, UV-stabilised

Colour: white

Height: 38 mm

Weight: approx. 20 g/piece article no.: 40015

RECIFYX ANCHORING PEGS

for additional anchoring on sloping ground

Material: 100 % unmixed recycled ABS-plastic,
highly impact-resistant

Colour: black

Length: 250 mm

Weight: approx. 20 g/piece article no.: 40020

TENDER PROPOSALS

1. ____ m² =
____ no.

RECIFYX GREEN STANDARD

Turf honeycomb made of 100 % pure recycled HD-PE, highly impact-resistant, UV-stabilised, tested for distributed loads of max. 200 to/ m², length 387 mm, width 334/555 mm, height 38 mm, with joint linkage, quantity required: ____ pieces/m², colour green, art. no. 40000/40005. To be supplied and laid in accordance with the manufacturer's installation instructions. Coverage approx. 5.9/3.8 blocks per m², including fixed expansion joint. Quality in acc. with DIN EN ISO 9001:2000 Manufactured by: Hauraton GmbH & Co. KG

P. O. Box 16 61
D-76437 Rastatt, Germany
Tel.: +49-7222-958-0
Fax: +49-7222-958-102
E-Mail: export@hauraton.com

2. ____ no.

RECIFYX GREEN MARKING DOTS

from 100 % HD-PE, highly impact-resistant, UV-stabilised, white, height 38 mm, art. no. 40015

3. ____ no.

RECIFYX GREEN ANCHORING PEGS

made of 100 % unmixed recycled ABS-plastic, highly impact-resistant, length 250 mm, art. no. 40020

RECIFYX®
PLUS

RECIFYX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECIFYX®POINT
FASERFIX®POINT

DACHFIX®

RECIFYX®
GREEN SUPER

RECIFYX®
GREEN STANDARD

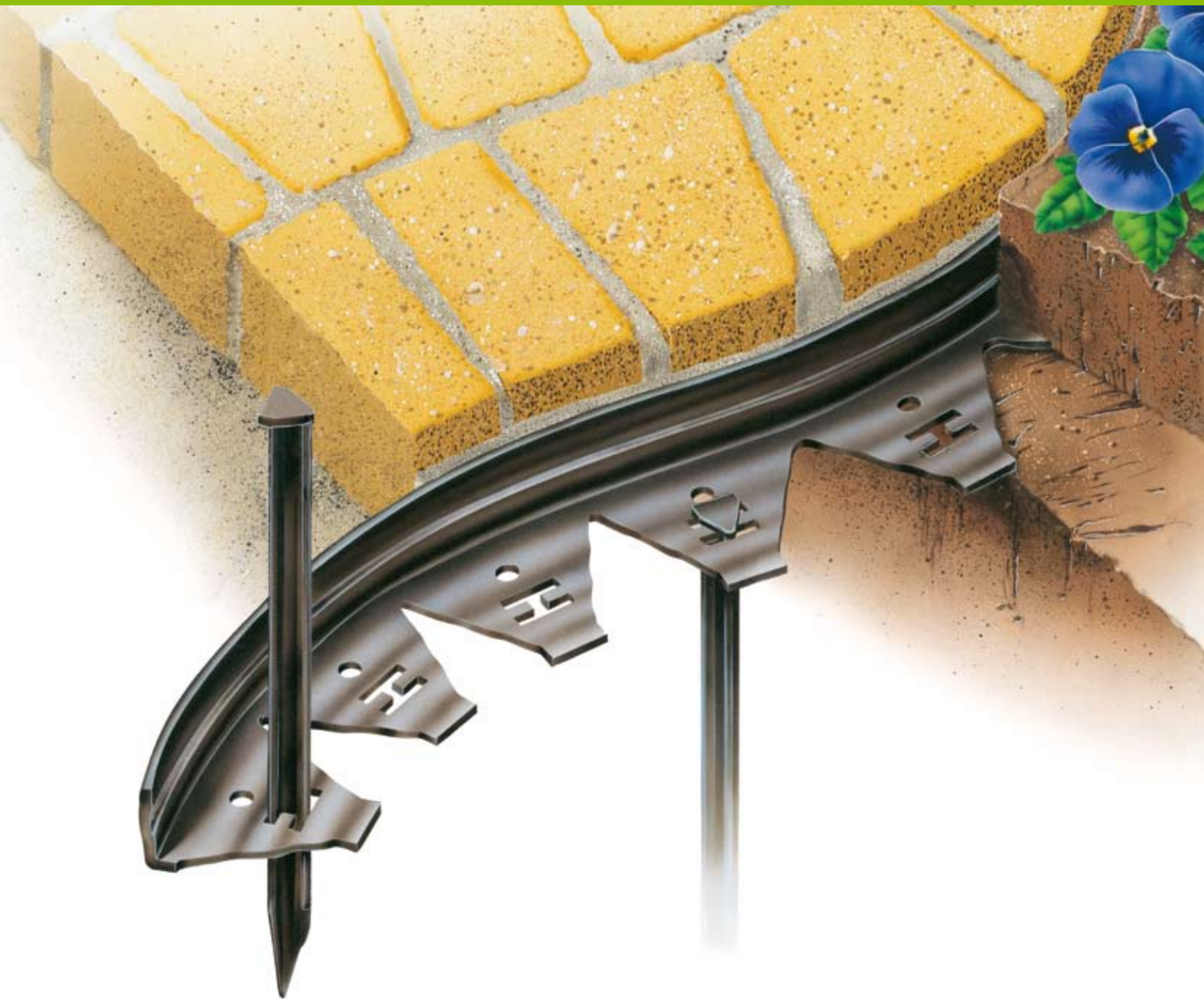
RECIFYX®
STREIF

LINEFIX®

LINEFIX®

FOR FLEXIBLE BORDER EDGING.

THE EFFECTIVE WAY TO PROVIDE AN EDGE TO PATHS AND FLOWERBEDS.





AT A GLANCE

- ✓ Easy to install, without digging a trench and foundations
- ✓ Visually unobtrusive and yet very effective edging
- ✓ Can be installed in straight lines or in curves and bends

LINEFIX®

FOR FLEXIBLE BORDER EDGING.

THE EFFECTIVE WAY TO PROVIDE AN EDGE TO PATHS AND FLOWERBEDS.

PROFESSIONAL EDGINGS FOR GARDENS, LANDSCAPES AND SPORTS GROUNDS

The edging for pathways, flowerbeds and lawn areas should be succinct but unobtrusive. The conventional concrete edging systems are seriously unattractive and have the further disadvantage, that they cannot easily follow curves and bends that are common in pathways and other borders. We therefore need edgings that are visually unobtrusive and can adapt to the shapes of pathways and borders. In addition, a barrier against root spread is required at the transitions between different areas, such as between lawn and paving or lawn and tamped area.

LINEFIX Borders are effective and visually unobtrusive and are easy and quick to install without having to dig trenches or lay foundations.

They are fixed to the ground with matching Anchoring Pegs or steel nails and can be adapted to the shapes required by the landscape or design, even down to tight radii, depending on the system. In addition, LINEFIX Borders offer reliable protection against root spread between adjoining areas. Applications for the edgings range from private gardens through to public gardens, parks and sports grounds. With a length of 1500 mm, LINEFIX Borders have been designed with a view to professional applications in garden and landscape design.

LINEFIX STANDARD consists of 100 % pure recycled HD-PE. 100 % and can again be 100 % recycled to meet environmental recycling criteria. LINEFIX SUPER is manufactured from galvanised, corrosion-protected steel and can also be recycled.

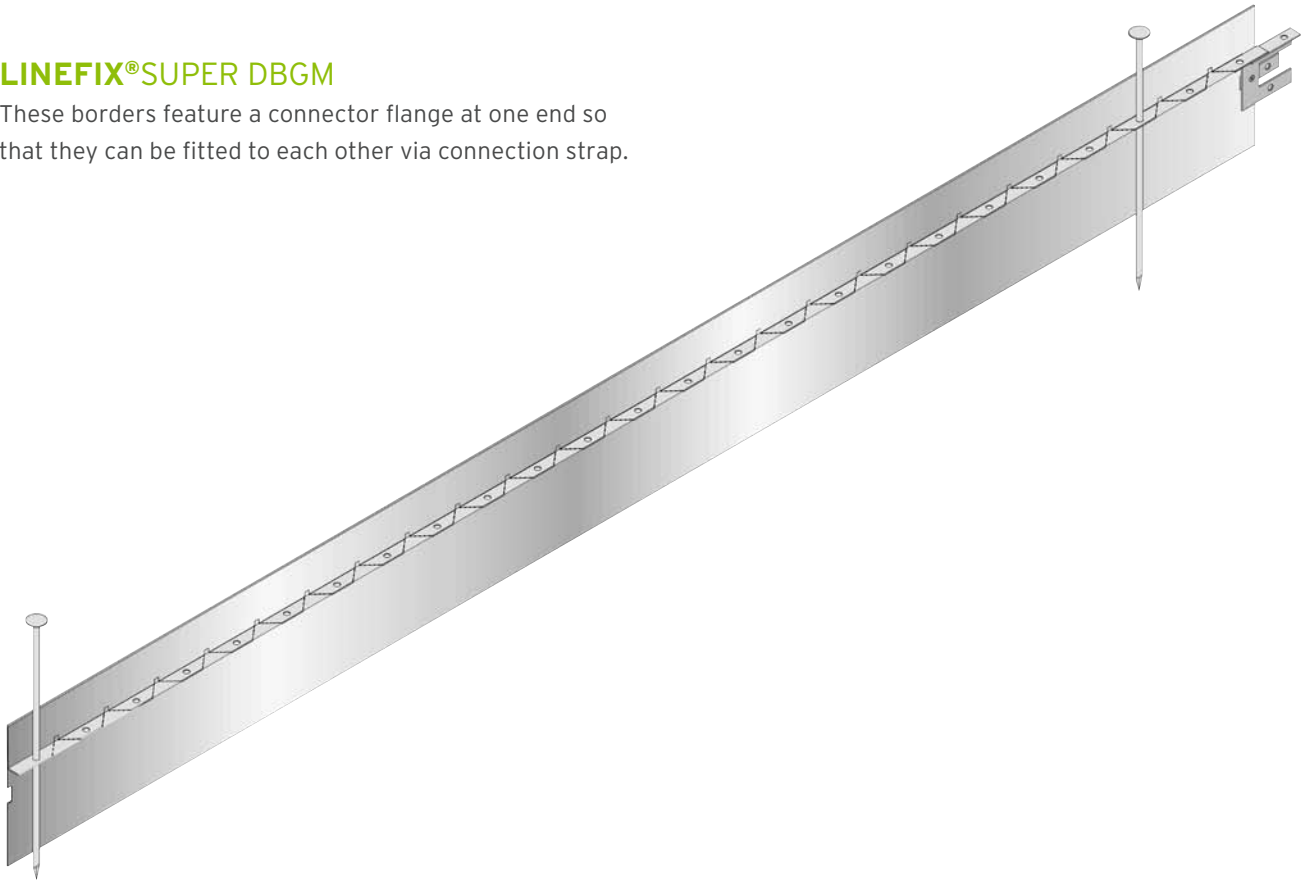


REQUIREMENTS

LINEFIX Borders are effective and visually unobtrusive edgings made of pure recycled HD-PE or corrosion-protected steel for pathways, flowerbeds and lawn areas in gardening and landscaping.

LINEFIX®SUPER DBGM

These borders feature a connector flange at one end so that they can be fitted to each other via connection strap.



LINEFIX®SUPER - Borders

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--------------------------------|--------------|-------------|--------------|--------------|----------------|
| galvanised | 1500 | 20 | 175 | 2,8 | 43210 |
| stainless steel | 1500 | 20 | 175 | 2,8 | 43230 |
| Fixing anchor, galvanised | 280 | | - | 0,1 | 43250 |
| Fixing anchor, stainless steel | 280 | | - | 0,1 | 43270 |

The quality of the stainless steel material is according CNS 1.4301.

RECYFIX®
PLUS

RECYFIX®
STANDARD

SLOTTED
CHANNELS

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

DACHFIX®

RECYFIX®
GREEN SUPER

RECYFIX®
GREEN STANDARD

RECYFIX®
STREIF

LINEFIX®

LINEFIX®

FOR FLEXIBLE BORDER EDGING.

THE EFFECTIVE WAY TO PROVIDE AN EDGE TO PATHS AND FLOWERBEDS.

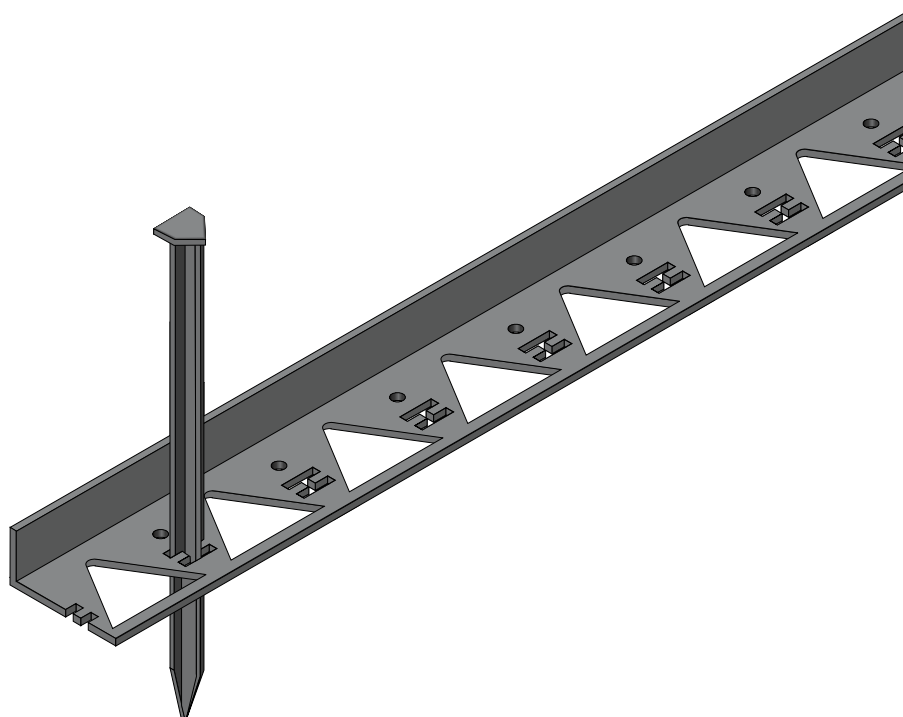
LINEFIX®STANDARD

Material: 100 % pure recycled HD-PE, highly impact-resistant, UV-stabilised
Colour: black

ANCHOR PEG

LINEFIX®STANDARD

Material: 100 % pure recycled ABS-plastic, highly impact-resistant



LINEFIX®STANDARD - Borders

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|-----------------------------------|--------------|-------------|--------------|--------------|----------------|
| made of PE-PP | 1500 | 80 | 45 | 0,7 | 43110 |
| Anchoring peg made of ABS-plastic | 250 | | - | - | 40020 |

Bigger lengths are available as taylor made solutions on request.
Minimal differences in the measurements are possible because of the recycled material.
For fixing steel nails could be used as an alternative.



CIVILS

LANDSCAPING

AQUA

SPORT

TOP

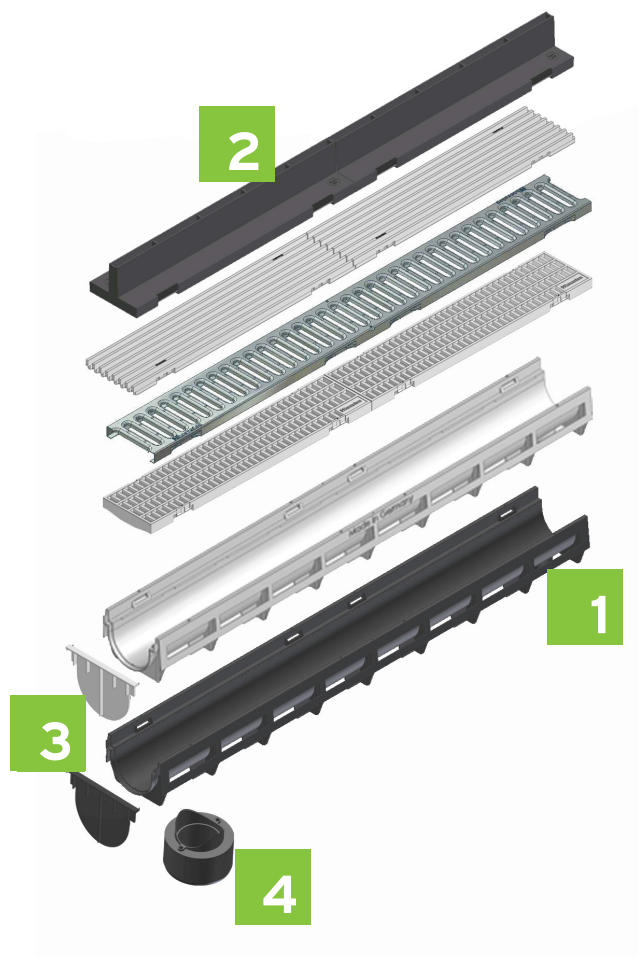
The cost effective drainage channel system for domestic use
Perfect for drives, garages and gardens



TOP

The cost effective drainage channel system for domestic use

Perfect for drives, garages and gardens



1

■ TOP Channel body available in silver and black made of corrosion resistant PE-PP with groove and tongue for easy installation

2

■ numerous grating options (longitudinal slotted grating, slotted grating, mesh grating and paverslot cover).

All grating are self locking in the channel body.

TOP -Joining set (in plastic bag):

3

■ PE-PP end caps available in silver and black for start and end of channel run (two per bag)

4

■ 1 adapter including bolts for pipe connection DN 70/100

Furthermore an additional and detailed installation instruction is included in the plastic bag.

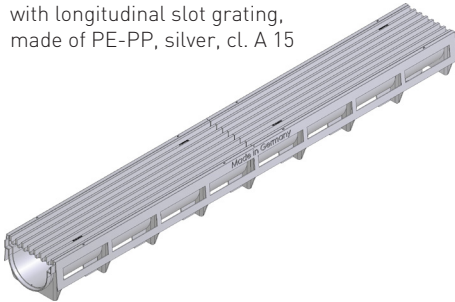
AT A GLANCE

- ✓ perfect for drives, garages and gardens
- ✓ easy to transport and quick to install
- ✓ end caps and installation advice make a complete system

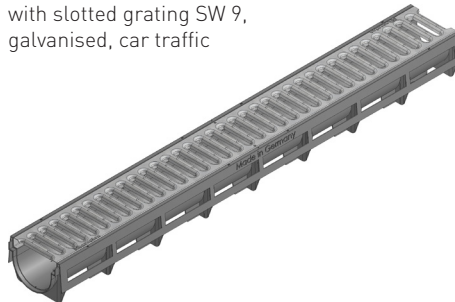


TOP - Combi article, PE-PP Channel with grating

with longitudinal slot grating,
made of PE-PP, silver, cl. A 15



with slotted grating SW 9,
galvanised, car traffic



with mesh grating MW 8/21,
PP copo, black, car traffic

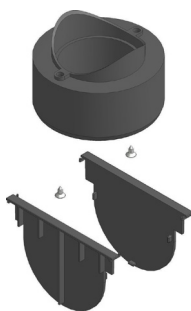


| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² | Weight kg | Item No. |
|--|--------------|-------------|--------------|---|---------------------------------------|--------------|-------------|
| with longitudinal slot grating, made of PE-PP, silver, cl. A 15 | 1000 | 134 | 95 | 45 | 637 | 1,5 | 44080 |
| with slotted grating SW 9, galvanised, car traffic | 1000 | 134 | 95 | 45 | 256 | 1,9 | 44000 |
| with mesh grating MW 8/21, PP copo, black, car traffic | 1000 | 134 | 95 | 45 | 250 | 1,5 | 44050 |
| with mesh grating MW 8/21, PP copo, silver, car traffic | 1000 | 134 | 95 | 45 | 250 | 1,5 | 44200 |
| with paverslot cover made of PPcopo, car traffic | 1000 | 134 | 95 | 45 | 118 | 1,5 | 44150 |

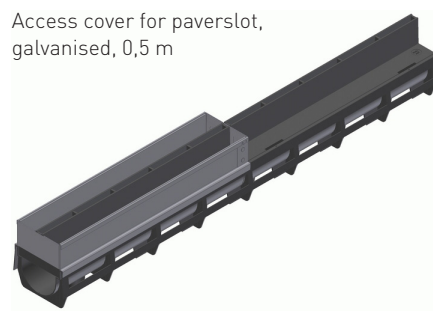
Shipment only pallet-wise.

TOP - Combi article, PE-PP Channel with grating

TOP -Joining set incl.
installation instruction
for black channel



Access cover for paverslot,
galvanised, 0,5 m



| | Length mm | Width mm | Height mm | Drainage cross-sect. cm ² | Intake cross-sect. cm ² | Weight kg | Item No. |
|---|--------------|-------------|--------------|---|---------------------------------------|--------------|-------------|
| TOP -Joining set incl. installation instruction for black channel | - | - | - | - | - | 0,2 | 44100 |
| TOP -Joining set incl. installation instruction for silver channel | - | - | - | - | - | 0,2 | 44140 |
| Access cover for paverslot, galvanised, 0,5 m (can be used with one cover of item-no. 44150) | 500 | 129 | 58 | - | - | 2,0 | 44160 |



CIVILS

LANDSCAPING

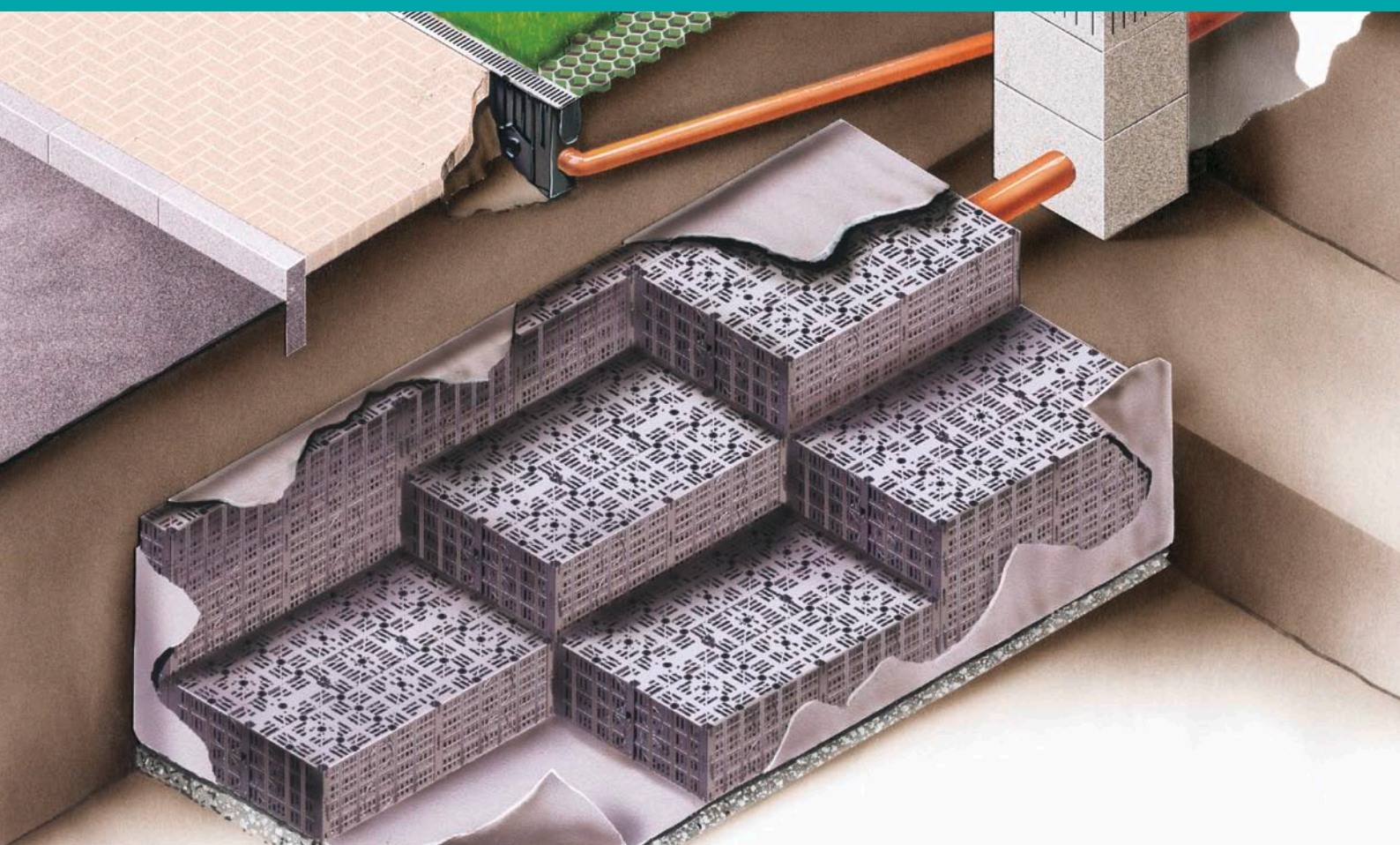
AQUA

SPORT

AQUA

THE RANGE FOR INFILTRATION SOLUTION

 **hauraton**
IT'S RUNNING WELL



THE RANGE FOR INFILTRATION SOLUTION

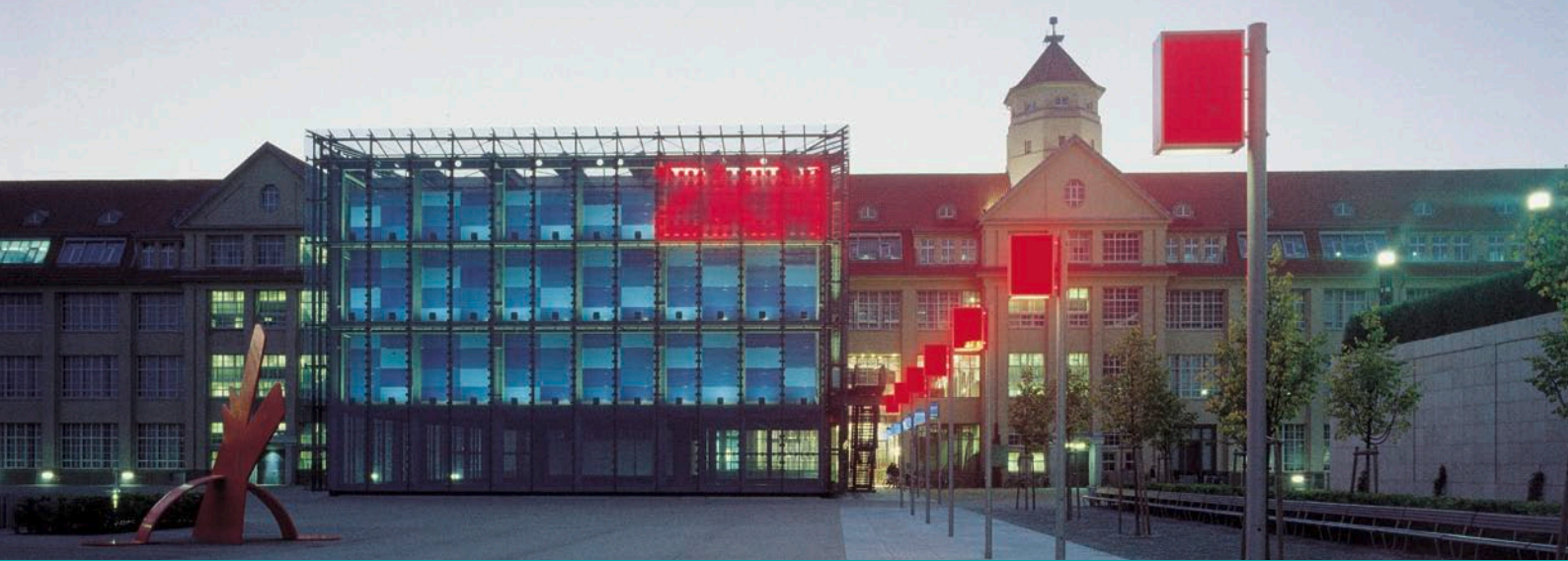
EFFECTIVE INFILTRATION SYSTEMS SUPPORT THE NATURAL WATER CYCLE AND PROVIDE SUSTAINABLE SUPPORT FOR VITAL RESOURCES.

Water is one of the most valuable resources on earth. Water means life. However, in densely populated countries the natural water cycle is significantly affected by ground surfaces being sealed off. Natural infiltration of rainwater is reduced more and more, resulting in the ground-water level sinking and ground drying out.

In order to counteract these developments we require systems that store rainwater at the place of precipitation and then release it gradually back into the natural cycle. With our infiltration products we offer an intelligent way of achieving this. The HAURATON storage elements are suitable for installation underneath traffic areas in trading and housing estates as well as under drives with passenger car usage in private residential areas. The areas above the system remain usable.

HAURATON supports the design team by providing calculations for the sizing of the infiltration system and construction details, ensuring long-term functionality of the installation. With the help of our expert knowledge and advice for installation and servicing, contractors find it easy to deliver perfect results.

HAURATON works in accordance with the regulations for infiltration systems and offers customers a service based on the latest state of technology.



THE HAURATON DESIGNER PACKAGE



DRAINFIX®BLOC
STABLE, SAFE AND EXTREMELY STRONG



DRAINFIX®TWIN
HIGH VOLUME IN THE SMALLEST SPACE

THE HAURATON DESIGNER PACKAGE

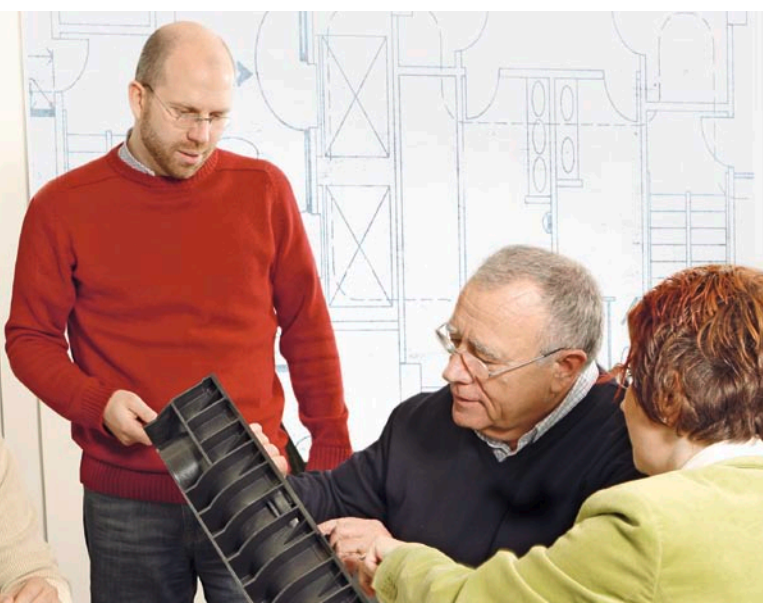
HAURATON IS NOT ONLY INVOLVED IN THE DEVELOPMENT OF INNOVATIVE PRODUCTS, THE COMPANY WILL ALSO SUPPORT YOU IN THE DESIGN AND IMPLEMENTATION OF YOUR PROJECTS.

INDIVIDUAL SUPPORT FOR THE SYSTEM DESIGNER

Designing solutions for the many and diverse requirements in the field of infiltration requires detailed knowledge, great expertise and extensive experience. Our experts, both in field sales as well as in the office, are fully trained to answer technical and product-specific questions to be able to provide you with competent and individual advice. We will support your individual building project from project-related tender documents through to installation - even where the brief calls for unusual duties and design. Give us a call or send us an email! We are always available for you and look forward to solving your individual questions regarding infiltration solutions.

SYSTEM DESIGN

The functionality of an infiltration system depends largely on various conditions, such as the local precipitation data, the absorptive properties of the soil and the computation of catchment areas. In order to make it easier for you to make an informed decision about the type, size and installation of the infiltration systems, we produce calculations for your specific site. Our calculations are free of charge and are based on DWA-A 138. All we need from you for the staff in our specialist department is some detailed information which you can enter in the calculation sheet for our DRAINFIX products. These parameters will be entered into the calculations. If you wish to make use of our service, please do not hesitate to contact our experts in-house and in field sales.



Cross Section DRAINFIX BLOC (1200x800)

M 1: 20

Geotextile GRK 3

Ventilation through inlet shaft

OUR ADVANTAGES FOR DESIGNERS

- ✓ Highly reliable design solutions based on products and processes with in-house and external quality monitoring
- ✓ Individual support for your designs
- ✓ Service free of charge: calculations for determining the size of the infiltration structure, project-specific specification texts and installation advice

HAURATON IS A MEMBER OF THE RAL QUALITY ASSOCIATION FOR WATER SYSTEMS E.V.

RAL (German Institute for Quality Assurance and Certification e.V.) is an organisation in charge of securing high quality levels of products and services. Only RAL, the head organisation of currently 131 quality organisations, is authorised to award quality marks in Germany.

HAURATON is a member of this quality association and can therefore offer the highest level of product certification.

DRAINFIX CALCULATION SHEET

Each HAURATON designer folder contains a DRAINFIX calculation sheet to be used by the system designer to enter all required data for calculating the volume and size of infiltration facility. On the basis of these data, HAURATON will provide free-of-charge calculations based on DWA-A 138.

DRAINFIX BERECHNUNGSBOGEN
ZUR DIMENSIONIERUNG ERFORDERLICHE ANGABEN
RÜCKFAX BITTE AN
+49 7222 958-101 oder -102 oder -147

hauraton

FIRMENNAME + ADRESSE _____

OBJEKTNAME + ORT _____

1. DIMENSIONIERUNG / ANGERBOT _____

2. ART DER EINZUGSGEBIETSFLÄCHE _____

☐ Dimensionierung ☐ Dimensionierung und Angebot

Dachfläche / Material Dachdeckung

☐ Schrägdach _____ m²

☐ Flachdach (Neigung bis 3° oder ca. 5 %) _____ m²

☐ Gründach (Neigung bis 15° oder ca. 25 %) _____ m²

Straßen, Wege und Plätze

☐ Asphalt, fugenloser Beton _____ m²

☐ Pflaster mit dichten Fugen _____ m²

☐ fester Kiesbelag _____ m²

☐ Pflaster mit offenen Fugen _____ m²

☐ lockerer Kiesbelag, Schotterrasen _____ m²

☐ Verbundsteine mit Fugen, Sickersteine _____ m²

☐ Rasengittersteine _____ m²

3. BODENBESCHAFFENHEIT (α₀-WERT) _____

☐ Sand ☐ schluffiger Sand _____ m/s

☐ sandiger Lehm ☐ Lehm _____ m/s

☐ Oberboden oder: k₀-Wert (m/s) _____ m/s

4. BELASTUNGSKLASSE
DRAINFIX-Einbauvarianten:

☐ begehbar ☐ BLOC ☐ TWIN 1 ☐ TWIN ☐ TWIN WAVE

☐ Pkw-befahrbar ☐ SLW 60

5. GEPLANTE RIGOLENABMESSUNG _____

6. GEWÜNSCHTE SYSTEMART _____

Länge/Breite/Höhe _____

☐ Rigole ☐ Regenrückhaltung einfach nach DWA-A 117

☐ Mulden-Rigole

7. MULDENBREITE / VERSICKERUNGSLÄCHE MULDE _____

b = _____ m A = _____ m²

8. AUSFÜHRUNGSZEITRAUM _____

Hauraton GmbH & Co. KG
Weyersstraße 13
76437 Badstätt
Germany
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Fax +49 7222 958-100
info@hauraton.com
www.hauraton.com

DESIGN PRINCIPLES FOR INFILTRATION STRUCTURES

THE DIMENSIONS OF AN INFILTRATION STRUCTURE DEPEND ON
A NUMBER OF ESSENTIAL PARAMETERS.

WHY INFILTRATION?

The continuing sealing off of surfaces through the construction of residential and commercial buildings and roads seriously affects the natural water cycle. In urban areas with average densities only about one quarter of the stormwater volume can infiltrate the ground. The largest part has to be drained away via the drainage systems. Defunct and inadequately sized drainage networks are no longer capable of handling these quantities of water. Natural soils and layers of vegetation provide storage for the stormwater and then release it again to the ground water with a time delay after it has been filtered.

As surfaces are sealed on construction sites, this process can no longer take place on an adequate scale. The result is the reduction of groundwater level and soils drying out. Another negative effect is the increasing risk of flooding catastrophes as well as the continuing need to construct costly drainage networks and retention basins. In order to counteract these developments we require systems that store stormwater at the place of precipitation and then release it gradually back into the natural cycle.

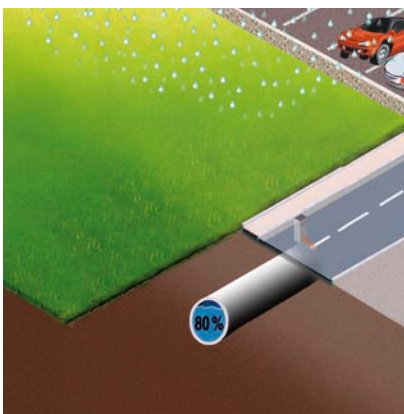


Figure 1: Original condition of site. Rainwater can soak away into the open soil. Utilisation of drains max. 80 %.

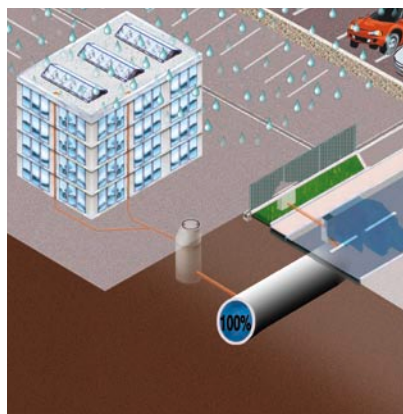


Figure 2: Buildings are erected on the site, the surface is sealed off. Precipitation water can no longer infiltrate the soil and is fully drained into the drainage system. This leads to an overload on the drainage system and hence to high costs for repair and upgrading.

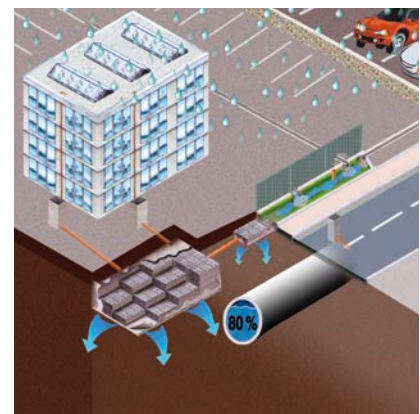


Figure 3: Decentralised infiltration via soak-away structure with infiltration blocks: precipitation water runs into the infiltration structure via channels or pipe drainage or directly from surfaces with infiltration capacity, such as turf. Advantages: less surface area required, less load on the drainage network, the surfaces above the infiltration structure remain usable.

COMMERCIAL REASONS

Constant upgrading work as well as the operation and maintenance of drainage networks and retention basins drives up the costs for local authorities. The effect this has on sewage charges is something we can all feel in our pockets. Many municipalities recommend and support with grants the construction of decentralised infiltration systems on building sites when areas are opened up for new developments. This ecological commitment can also bring financial benefits from grants or reduced levies and charges.

ADVANTAGES COMPARED TO CONVENTIONAL GRAVEL INFILTRATION STRUCTURES

- lightweight
- compact dimensions
- very high storage volume

Today many infiltration systems are built in the form of swales. However, these need a lot of space and are not very popular with nearby residents so that this solution is not very suitable for residential and commercial areas. A more compact version are infiltration structures underground, consisting of beds of gravel surrounded with geotextiles. The main disadvantage of these systems is the relatively small storage volume because only 30% of the overall volume is available for the storage of water. It follows therefore that in order to achieve the same capacity as an infiltration structure based on the DRAINFIX BLOC system, one has to excavate 3 times the amount of soil.

COMPLETE SYSTEM PROVIDER

Each infiltration structure has to meet a specific set of parameters and has to be adapted to the conditions on site. A range of different infiltration systems is available, which can be extended by additional components (e.g. sedimentation systems or manholes), depending on requirements. At HAURATON you will get everything you need from one port of call. Our service covers expert advice through to help with sizing and finally helpful tips for installing and operating the system. Likewise, you will get all the parts you need for the system from one supplier. Our product range includes several sedimentation systems, infiltration structures and manholes as well as the complete range of accessories. Design and build your infiltration system with HAURATON.



ADVANTAGE 1: LESS SOIL TO EXCAVATE

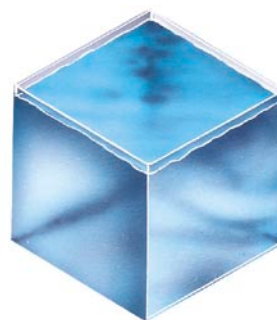


Excavated soil
DRAINFIX BLOC or
DRAINFIX TWIN

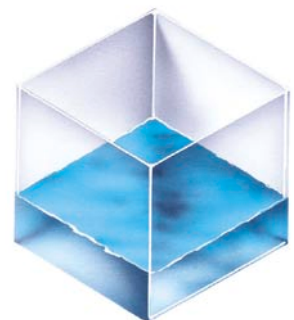


Excavated soil for
conventional gravel

ADVANTAGE 2: LARGER WATER STORAGE VOLUME



Volume of water stored
with **DRAINFIX BLOC**
or **DRAINFIX TWIN**



Volume of water stored
in conventional gravel

DESIGN PRINCIPLES FOR INFILTRATION STRUCTURES

THE DIMENSIONS OF AN INFILTRATION STRUCTURE DEPEND ON
A NUMBER OF ESSENTIAL PARAMETERS.

SIZING IN ACCORDANCE WITH DWA-A 138

The regulations issued by the Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V., (German association for water and wastewater management and refuse), abbreviated DWA, in Germany are considered the generally accepted basis for the design, construction and operation of water, wastewater and waste management systems as well as the protection of the soil. Infiltration structures are covered in worksheet DWA-A 138. According to that, the following parameters need to be taken into consideration for sizing an infiltration structure:

- ☐ catchment area and run-off factor
- ☐ soil conditions and permeability, k_f -value
- ☐ rain yield and occurrence of rain
- ☐ groundwater



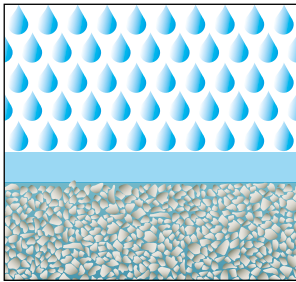
CATCHMENT AREAS

This includes all areas from which precipitation water runs into the infiltration system. The important parameters are the degree of water permeability (run-off value) and planned usage. For example, the water coming off an area of turf is different in quantity and quality to that coming off a road.

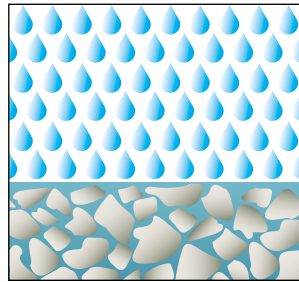
| TYPE OF SURFACE | SUGGESTED MEAN RUN-OFF VALUES ψ_m FOR TYPE OF SURFACE FINISH |
|---|---|
| Sloping roof | metal, glass, slate, fibre cement: 0.9 – 1.0 |
| | tiles, roofing felt: 0.8 – 1.0 |
| Flat roof (slope up to 3° or approx. 5%) | metal, glass, fibre cement: 0.9 – 1.0 |
| | roofing felt: 0.9 |
| | gravel: 0.7 |
| Green roof (slope up to 15° or approx. 25%) | with ← 10 cm humus layer: 0.5 |
| | with → 10 cm humus layer: 0.3 |
| Roads, pathways and squares (level) | asphalt, concrete without joints: 0.9 |
| | paving with closed joints: 0.75 |
| | firm gravel topping: 0.6 |
| | paving with open joints: 0.5 |
| | loose gravel topping, turf on broken stone: 0.3 |
| | interlocking pavers with joints, draining pavers: 0.25 |
| Banks, hard shoulders and ditches | turf pavers: 0.15 |
| | clayey soil: 0.5 |
| | loamy sand soil: 0.4 |
| Gardens, meadows and agricultural land | gravel and sand soil: 0.3 |
| | level terrain: 0.0 – 0.1 |
| | sloping terrain: 0.1 – 0.3 |

SOIL PROPERTIES, k_f -VALUE

The properties of the soils are of critical importance for the infiltration characteristics. Sandy soils or those with a gravel content have a lower infiltration factor k_f and hence allow significantly more infiltration than those with a high clay content. This k_f -value is determined by the grain size, composition and volume of the material in the soil and indicates how fast water can infiltrate (soak away). Soils with good infiltration characteristics have k_f -values between 10^{-3} m/s and 10^{-6} m/s and range from sandy gravel to sandy silt.



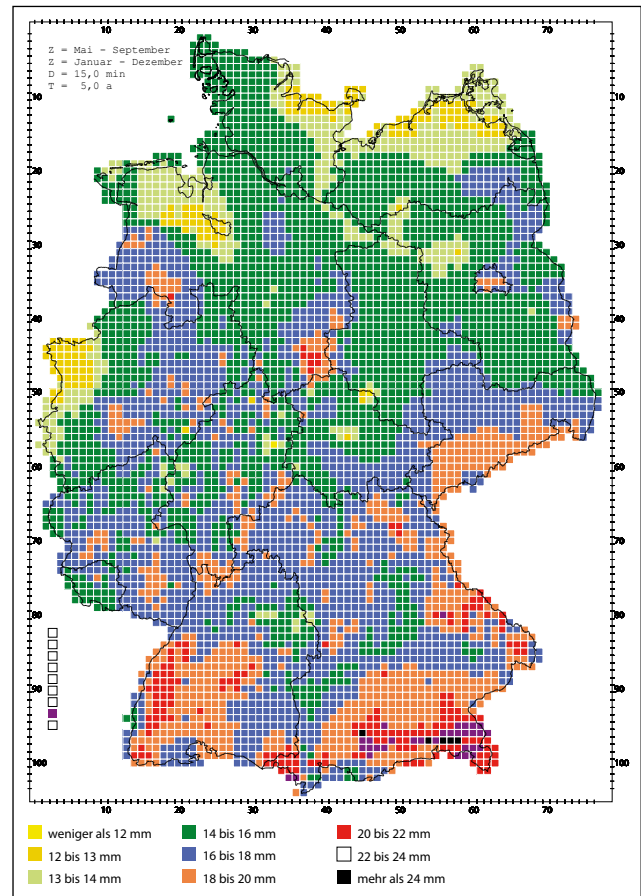
small grain size -
low permeability



big grain size -
high permeability

RAIN YIELD AND OCCURRENCE IN ACC. W. DWA-M 153 AND DWA-A 138

We will determine the rain yield for the location of your infiltration structure on the basis of the KOSTRA data, a long-term collection of data by the German Weather Service. These data list the quantity, duration and intervals of rain for every location in Germany. The calculation is based on the most unfavourable precipitation values, thus ensuring an adequate safety factor.



Map of Germany showing precipitation quantities
(in litres per second and hectare)

Depending on where it comes from, water can have more or less dirt particles and may carry fine dirt particles. Engineers can evaluate the properties of the precipitation water in accordance with worksheet DWA-M 153 and use these data for the calculations. Depending on the content of pollutants, worksheet DWA-A 138 distinguishes between harmless, tolerable and not tolerable water qualities. All these factors have to be taken into account when selecting and designing an infiltration system.

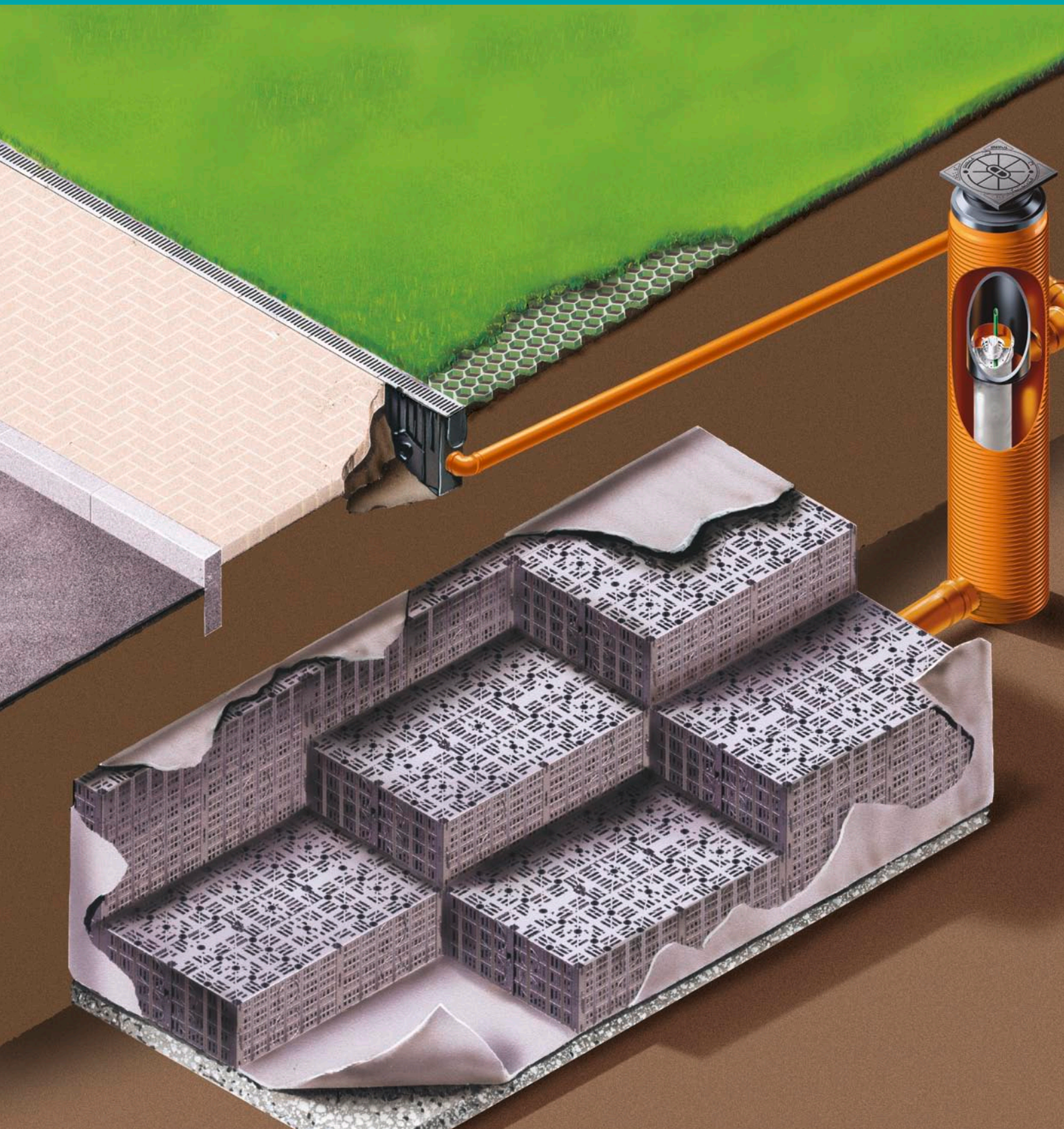
GROUNDWATER

One of the most important ecological reasons for the installation of infiltration systems is the protection of groundwater. With the help of these systems, precipitation water is returned to the natural cycle. An adequate distance (at least 1 m) has to be guaranteed permanently between the floor of the infiltration structure and the highest expected groundwater level. In addition, there must be no polluted layers of soil in the catchment area of the system. Otherwise, pollutants dissolved in water may get into the groundwater.

DRAINFIX® BLOC

STABLE, SAFE AND EXTREMELY STRONG.

INFILTRATION MODULES FOR INDUSTRIAL AND COMMERCIAL AREAS.



AT A GLANCE

- ✓ Infiltration block with very high storage capacity
- ✓ Light-weight and variable infiltration modules
- ✓ Requires only a minimum of excavation
- ✓ Ideal where space is restricted
- ✓ Load-bearing capacity up to SLW 60, suitable for installation under areas with vehicular traffic



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INFILTRATION MODULES FOR INDUSTRIAL AND COMMERCIAL AREAS.

THE PRODUCT

DRAINFIX BLOC is a polypropylene (PP) infiltration block with a very high storage capacity. The void ratio is more than 90%. The system can be installed in areas with different load requirements - even in HGV-trafficked areas up to SLW 60. The modules have been tested structurally for different load conditions. Stormwater enters the infiltration structure through infiltration in accordance with work sheet DWA-A 138. Filtered water will reach the system via an inlet and distribution SHAFT. This SHAFT has an additional small particle filter which is capable of retaining non-soluble residual dirt. The individual elements have compact dimensions and are connected to each other without accessories. In that way the infiltration structure is constructed up to the required calculated size. The SHAFT has an overflow facility connected to the drainage system. In addition, the SHAFT can be used to control the infiltration performance and/or the level of water in the infiltration trench and can be used to function as a control SHAFT.

APPLICATION AREAS

Decentralised infiltration solutions in commercial areas, industrial precincts and on private property, in particular underneath traffic areas, e.g. parking areas to class VI of RStO 01 and other areas with vehicular access, depending on local building regulations.

FURTHER ADVANTAGES

□ Unique connection technology without accessories

In order to achieve the required storage volume simply add several DRAINFIX BLOC elements together using the push-fit function. The individual modules will form a stable structure horizontally and vertically, without additional accessories. This connection method saves time and money. It has been developed by HAURATON and is unique in the market.

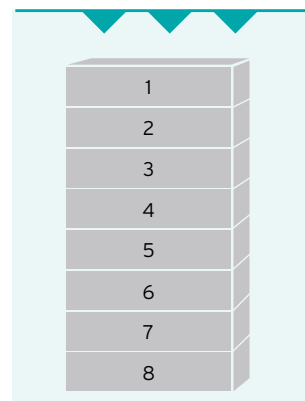
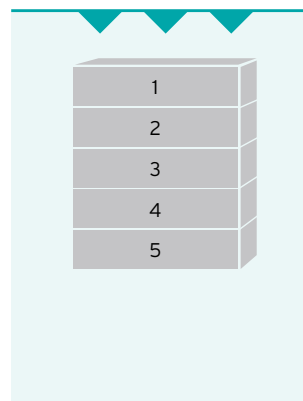
□ High load-bearing capacity

Any infiltration structures in commercial areas are exposed to heavy goods vehicle (HGV) traffic. For these applications and depending on the installation method we offer a DRAINFIX BLOC model for up to SLW 60. These products are therefore particularly suitable for installation underneath trafficked areas with HGV usage, e.g. fire engine access lanes.

SUITABLE FOR HGV, UP TO SLW 60



SUITABLE FOR PASSENGER CARS



More layers are possible depending on the object.



□ Very strong hence small space requirement

Depending on the type of soil, the modules can be installed in several layers. Under SLW 60 conditions it is possible to form 5 or more layers (depending on the type of soil and details of the cover); under less heavy loads it is possible to increase the number of layers as calculated for the respective loads, for example 8 layers for passenger car traffic. This minimises the size of the building site and the space requirement.

□ Change of use

Where there is a subsequent change of use, DRAINFIX BLOC offers another assurance. Any areas that were originally designed for pedestrian traffic only can also be reclassified for vehicular traffic given certain installation details.

□ Geotextile dressing to maintain function

The function of an infiltration structure will be restricted where dirt and soil particles silt up inside the structure. The build up of silt will reduce the amount of infiltration. To avoid this effect, the whole structure is wrapped up in a geotextile membrane made from PP-fleece GRK 3 (weight: 200g/m²). Stormwater will always be filtered when using infiltration structures and SHAFTs, which helps to prevent silting up.

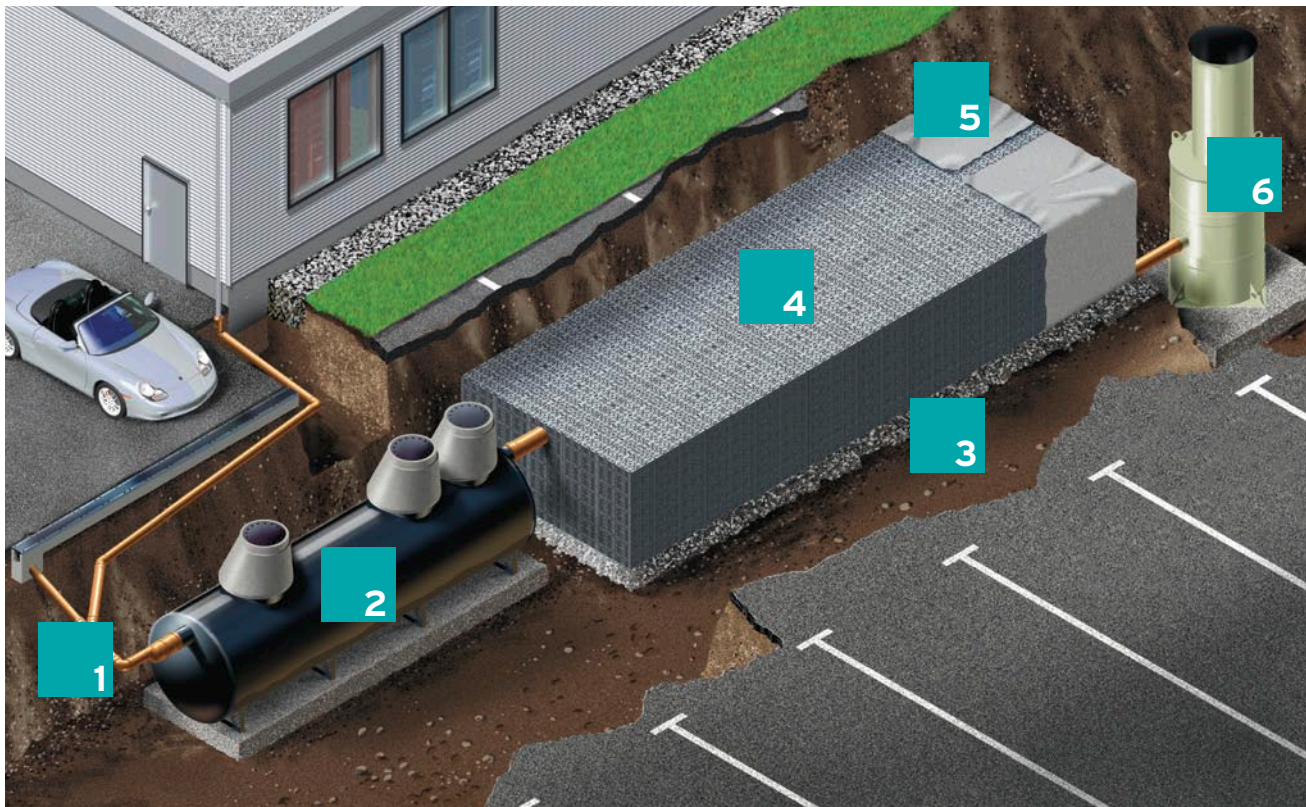


Taylor made solution according planners request

DRAINFIX® BLOC

STABLE, SAFE AND EXTREMELY STRONG.

INFILTRATION MODULES FOR INDUSTRIAL AND COMMERCIAL AREAS.

**1****Water inlet pipe**

Stormwater collection pipe channels water into the SHAFT

2**Rainwater treatment plant**

Individual dimensioned plant to filter dirt particles

3**Road level**

Granular subbase on ground with infiltration capability

4**Infiltration element**

DRAINFIX BLOC elements with high storage volume and even infiltration performance

5**Geotextile**

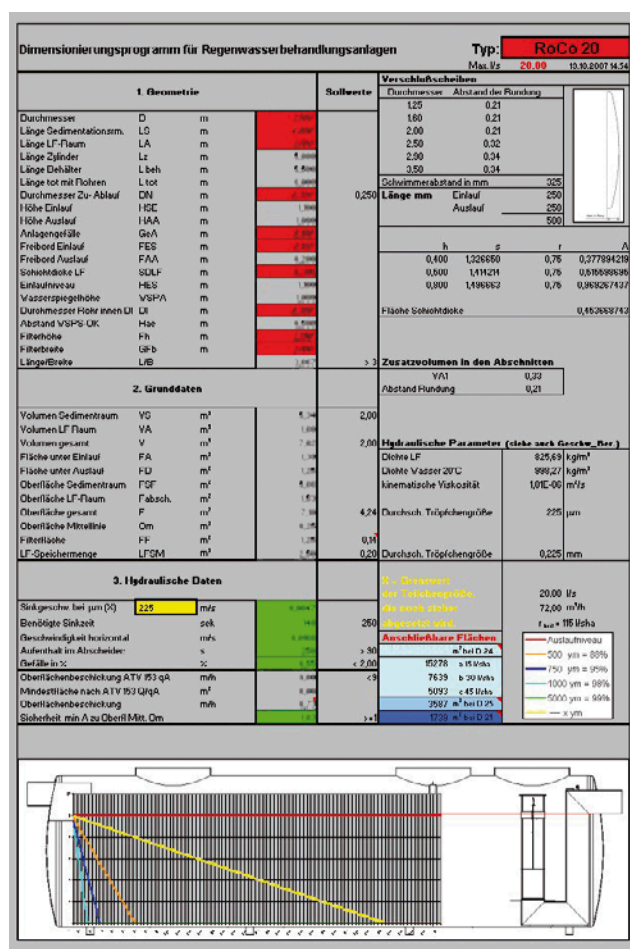
Can be used to protect the infiltration trench from silting up (optional)

6**Control shaft**

To control, clean and maintain the infiltration trench

DRAINFIX sedimentation systems for commercial areas have to withstand heavy traffic loads. For this reason we manufacture them from steel.

| DRAINFIX sedimenta- tion system type | areas that can be connected in m ² | | | | |
|---|---|-------|-----------|-----------|-----------|
| | D21 | D25 | D24 | | |
| | | | 15 l/s ha | 30 l/s ha | 45 l/s ha |
| 20 | 1739 | 3587 | 15278 | 7639 | 5093 |
| 50 | 4348 | 9239 | 39352 | 19676 | 13117 |
| 100 | 8696 | 17935 | 76389 | 38194 | 25463 |



DRAINFIX® BLOC SHAFTS

LARGE VOLUMES FOR PROVABLE SAFETY.

THE INFILTRATION STORAGE FOR MAXIMUM LOADS IN COMMERCIAL AREAS.

COMPLETE SYSTEM WITH INLET AND OUTLET CHAMBERS

Water will flow into the infiltration structure via an inlet, filter and distribution chamber which can be used for several inlet pipes. The chamber features a serviceable filter pipe that cleans the water from any silt components before it enters the system. The multi-function outlet chamber fulfils several duties:

☐ Outlet, emergency overflow

Where the quantities of water are very large, the infiltration structure may get completely filled up. To provide for that case, it is possible to connect an overflow which will allow excess water to run into another infiltration structure or into the drainage system.

☐ Control mechanism

In the case of poor infiltration properties of the soil, as well as to provide additional security, it is possible to fit a commercially available dynamic or static control mechanism for retention and infiltration.

☐ Venting

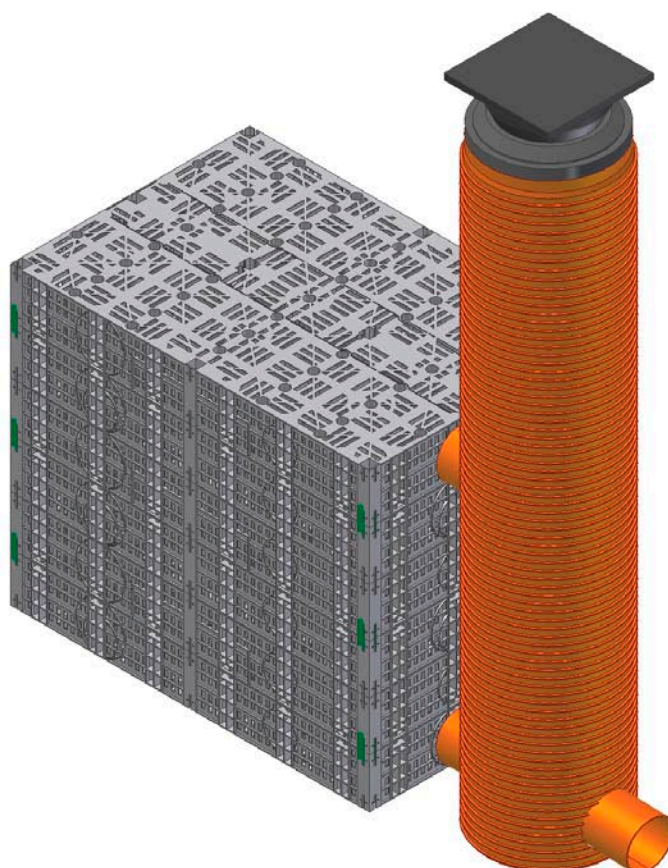
It is also necessary to allow air to escape from the system so that it can cope with a very sudden inflow of water. The chamber can also be used for the purpose of discharging air.

☐ Control

Another important function of the chamber is the control of the infiltration performance and level within the infiltration structure. No other chamber is available in the market with such a broad spectrum of functionalities. The chamber is made of plastic and available in classes A 15, B 125 and D 400 to suit different requirements.

MULTI-FUNCTION SHAFT

- ☐ inlet
- ☐ emergency overflow
- ☐ venting
- ☐ outlet
- ☐ control mechanism
- ☐ control/monitoring



□ Pre-formed connections

DRAINFIX BLOC modules as well as all chambers have pipe connections for sizes DN 100/150. This allows for easy and quick connections to standard PVC pipes.



Shaft DN 1000



Further shaft dimensions we can offer after the individual dimensioning.



DRAINFIX®BLOC

MAXIMUM STRENGTH AND LONG-TERM DURABILITY ARE AN ESSENTIAL REQUIREMENT FOR INFILTRATION STRUCTURES BUILT WITH INFILTRATION BLOCKS. DRAINFIX BLOC MODULES HAVE BEEN SUBJECTED TO RIGOROUS TESTING. THE RESULT: DRAINFIX BLOC HAS BEEN PROVEN TO BE ONE OF THE STRONGEST SYSTEMS ON THE MARKET.

PROVEN TO BE ONE OF THE STRONGEST SYSTEMS ON THE MARKET

Proven quality and strength

- ☐ quality management system in accordance with DIN ISO 9001:2000
 - ☐ suitable for load class SLW 60 according to calculations by civil engineer (VBI)
 - ☐ calculations and product testing in accordance with strict BBA requirements (British Board of Agreement)
 - ☐ proven long-term functionality (50 years) as tested under British standards
- = maximum reliability for the system designer
= DRAINFIX BLOC

STRENGTH TESTED TO BBA REQUIREMENTS

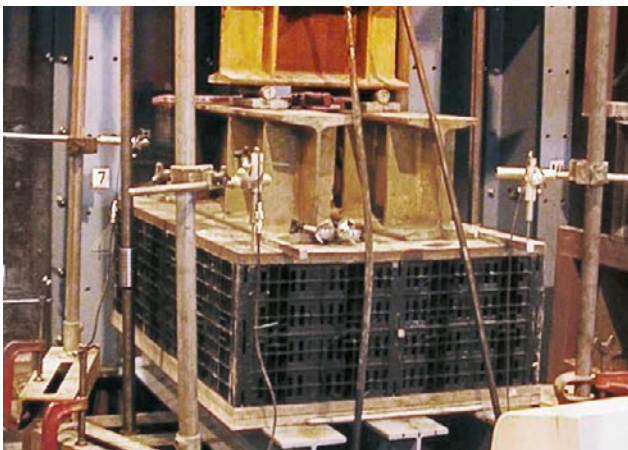
Test methods

The results are based on a number of structural tests:

- ☐ vertical and horizontal point loads applied via a 300 mm diameter steel plate
- ☐ vertical and horizontal distributed load applied via a steel plate covering the whole test specimen
- ☐ serial testing to assess creep characteristics. Test loads representing 80 %, 60 %, 40 % and 20 % of the maximum permissible point load were applied for a defined period of time (200 days).



Test with point load from above



Test with vertical distributed load



Test with horizontal load

RESULTS

Since March 2003, a standardised test method for plastic objects has been introduced in compliance with BBA regulations (British Board of Agreement).

- tests for maximum horizontal and vertical loading:

results:

distributed load

vertical compressive strength = 600 kN/m²

horizontal compressive strength = 120 kN/m²

point load

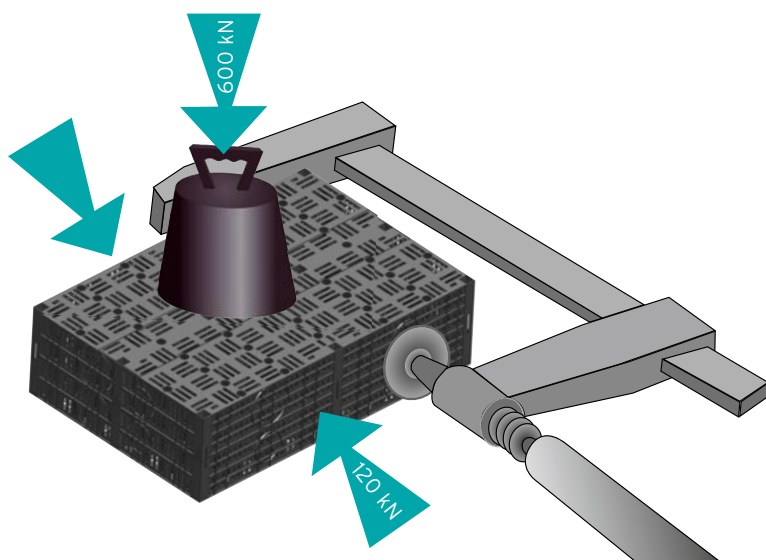
vertical compressive strength = 800 kN/m²

horizontal compressive strength = 120 kN/m²

- achievable installation depth up to 7.1 m depending on type of soil and load - without permanent supporting structures such as geolattice, sheet piling or concrete walls
- long-term test (up to 200 days) for assessing the creep characteristics - allows conclusions for a life span of up to 50 years
- the DRAINFIX BLOC by HAURATON also has been calculated under the German standard DIN1072 up to load class SLW60

DRAINFIX BLOC: strong system for maximum load-bearing capacity = maximum reliability for the system designer

DRAINFIX BLOC by HAURATON has been tested in accordance with the exacting English test methods.



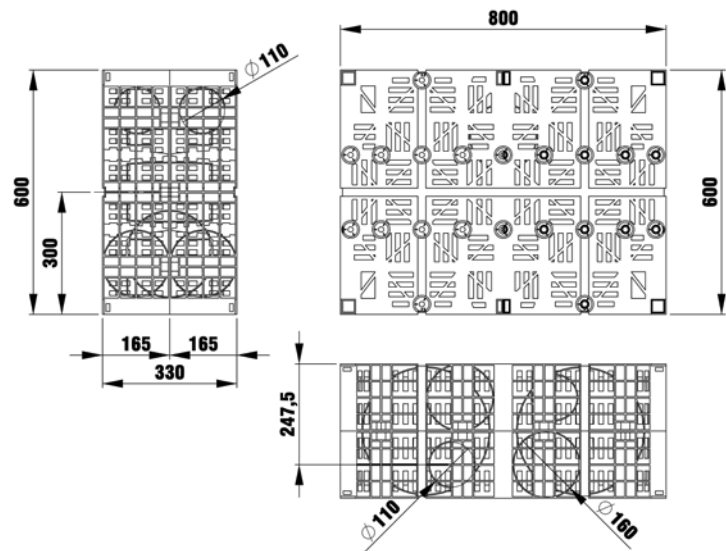
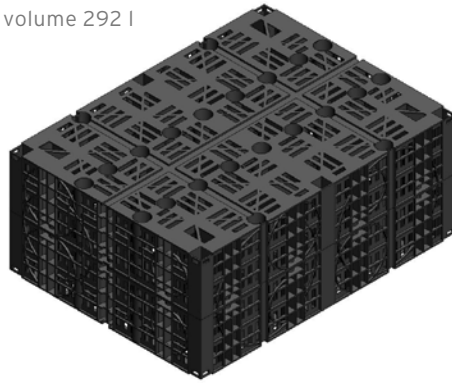
| | | |
|--|---|--|
| Dr. Niemann Consult INGENIEURGESELLSCHAFT MBH TRAGWERKPLANUNG im Anlagenbau | | |
| STATISCHE BERECHNUNG für Hauraton RECYFIX-Drainbloc Oberflächen-Entwässerung Modul-Bauweise | | |
| BAUHERR: | HERSTELLER: Hauraton GmbH & Co KG Werkstraße 13 D-76437 Rastatt Tel. (07222) 958-117 Fax (07222) 958-104 | |
| PRÜFER: | PLANER: Dr. Niemann Consult Ingenieurbüro mbH Scheffelstraße 75 D-68723 Schwetzingen Schwetzingen, den 22.09.2004 Index 1: 09.02.2005 | |
| Amtsgericht Mannheim HRB 1944 S Geschäftsführer: Dr.-Ing. Horst Niemann | | Berater: Ingenieur VBI, BDB Mitglied der Ing.-Kammer S-W Tel.: ++49 (0) 62 02-1 72 72 Fax: ++49 (0) 62 02-1 03 93 |

| |
|--|
| The Environmental Protection Group The College Business Centre Ulswater New Road, Derby DE22 9WZ Telephone: 01332 346 516 Fax: 01332 346 519 Email: epg@epg.co.uk www.epg.co.uk Company Number: 3006162 |
| Assessment of structural performance of Drainbloc stormwater storage system for Hauraton Revision 1.0 June 2004 |
| |

DRAINFIX®BLOC

DRAINFIX®BLOC - Seepage element, SLW 60 depending on installation

Black, volume 292 l



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Size 1, Black, volume 146 l | 600 | 800 | 330 | - | 96025 |
| Size 2, Black, volume 292 l | 1200 | 800 | 330 | 23,0 | 96000 |
| Supplementary for access with camera (for Size 2) | 1200 | 800 | 330 | 2,4 | 96150 |

DRAINFIX® - Rainwater treatment plants (ATV)

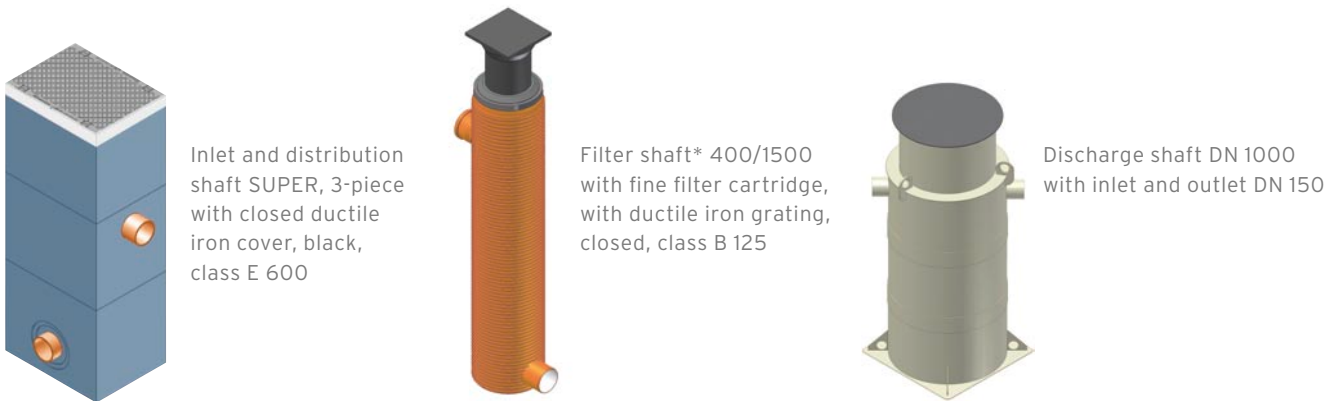
Type 20



| | Length mm | Width mm | Height mm | Weight kg | external diameter mm | Flow capacity l/s | Article No. |
|----------|--------------|-------------|--------------|--------------|----------------------------|-------------------------|----------------|
| Type 20 | 6000 | 1500 | 1650 | - | 1500 | 20 | 96400 |
| Type 50 | 9000 | 2500 | 2650 | - | 2500 | 50 | 96410 |
| Type 100 | 17000 | 2500 | 2650 | - | 2500 | 100 | 96420 |

All DRAINFIX - Rainwater treatment plants (ATV) are also applicable for DRAINFIX TWIN.

DRAINFIX® - Multifunction shafts



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Inlet and distribution shaft SUPER, 3-piece with closed ductile iron cover, black, class E 600 | 510 | 390 | 1250 | 289,0 | 96250 |
| Multifunction discharge shaft SUPER, 3-piece, with closed ductile iron cover, black, class E 600 | 510 | 390 | 1250 | 284,0 | 96350 |
| Filter shaft* 400/1500 with fine filter cartridge, with ductile iron grating, closed, class B 125 | 400 | - | 1673 | - | 96710 |
| Filter shaft* 400/1500 with fine filter cartridge, with ductile iron grating, closed, class D 400 | 400 | - | 1673 | - | 96720 |
| Filter shaft* 400/2000 with fine filter cartridge, with ductile iron grating, closed, class B 125 | 400 | - | 2173 | - | 96760 |
| Filter shaft* 400/2000 with fine filter cartridge, with ductile iron grating, closed, class D 400 | 400 | - | 2173 | - | 96770 |
| Multifunction shaft* 400/1500 with ductile iron grating, closed, class B 125 | 400 | - | 1673 | - | 96715 |
| Multifunction shaft* 400/1500 with ductile iron grating, closed, class D 400 | 400 | - | 1673 | - | 96725 |
| Multifunction shaft* 400/2000 with ductile iron grating, closed, class B 125 | 400 | - | 2173 | - | 96765 |
| Multifunction shaft* 400/2000 with ductile iron grating, closed, class D 400 | 400 | - | 2173 | - | 96775 |
| Discharge shaft DN 1000 with inlet and outlet DN 150 | 1000 | - | 2345 | - | 96890 |

* Height adjustable via telescope adaptation

DRAINFIX®BLOC - Accessories



Connection adaptor for
DRAINFIX BLOC Size 1, red



Connection adaptor for
DRAINFIX BLOC Size 2, green

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|--|--------------|-------------|--------------|--------------|----------------|
| Connection adaptor for DRAINFIX BLOC Size 1, red | 74 | 46 | 48 | - | 96115 |
| Connection adaptor for DRAINFIX BLOC Size 2, green | 35 | 35 | 100 | - | 96110 |
| Geotextile from PP-fleece GRK3 rollware 2 x 200 m, 200 g/m ² | - | - | - | 80,0 | 96120 |
| Geotextile form PP-fleece GRK3, sold by 2 m ² per metre cutting-off of the the roll | - | - | - | 0,2 | 96130 |

TENDER PROPOSALS

DRAINFIX BLOC INFILTRATION ELEMENTS

1. ____ no.

DRAINFIX BLOC

black, storage volume 292 l, made from PP; infiltration block, suitable for infiltration, retention and storage trenches and swales, with over 90 % storage capacity, with integrated connector adapters for safe positioning in accordance with DGBM, height 330 mm, length 1200 mm, width 800 mm, art. no. 96000. To be supplied and laid in accordance with the manufacturer's installation instructions. With suitable installation details load class up to SLW 60 - suitable for HGV. Quality in acc. with DIN EN ISO 9001:2000

Manufactured by: Hauraton GmbH & Co. KG
P. O. Box 16 61
D-76437 Rastatt, Germany
Tel.: +49-7222-958-0
Fax: +49-7222-958-102
E-Mail: export@hauraton.com

ACCESSORIES

2. ____ no.

DRAINFIX RAINWATER TREATMENT PLANT TYPE 20 ATVR

DN 1500 mm, length 6000 mm for 20 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 300, art. no. 96400

3. ____ no.

DRAINFIX RAINWATER TREATMENT PLANT TYPE 20 ATVR

DN 2500 mm, length 9000 mm for 50 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 300, art. no. 96410

4. ____ no.

DRAINFIX RAINWATER TREATMENT PLANT TYPE 100 ATV

DN 2500 mm, length 17000 mm for 100 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 300, art. no. 96420

5. ____ no.

INLET AND DISTRIBUTION SHAFT SUPER

in 3 parts, made from fibre-reinforced concrete with galvanised steel frame, load class E 600 with SIDE-LOCK boltless quick-locking system, 4-fold locking and closed cast iron cover, consisting of top, middle part with filter element and base, h/w/l 1250 x 390 x 510 mm, art. no. 96250

6. ____ no.

MULTI-FUNCTION OUTLET SHAFT SUPER

in 3 parts, made from fibre-reinforced concrete with galvanised steel frame, load class E 600 with SIDE-LOCK boltless quick-locking system, 4-fold locking and closed cast iron cover, consisting of top, middle part with filter element and base, h/w/l 1250 x 390 x 510 mm, art. no. 96350

7. ____ no. **FILTER MANHOLE 400/1500**
made from PP, with closed cast iron cover, load class ____, nominal width 400, with telescopic adapter and integrated sludge trap and fine filter cartridge with inspection facility, including visual maintenance indicator, inlet and outlet spigot DN 150, height of manhole 1,673 mm, can be extended by up to 680 mm via telescopic function, art. no. ____
8. ____ no. **FILTER MANHOLE 400/2000**
made from PP, with closed cast iron cover, load class ____, nominal width 400, with telescopic adapter and integrated sludge trap and fine filter cartridge with inspection facility, including visual maintenance indicator, inlet and outlet spigot DN 150, height of manhole 2,173 mm, can be extended by up to 180 mm via telescopic function; art. no. ____
9. ____ no. **MULTI-FUNCTION CHAMBER 400/1500**
made from PP, with closed cast iron cover, load class ____, nominal width 400, with telescopic adapter, inlet and outlet spigot DN 150, height of manhole 1,673 mm, can be extended up to 680 mm via continuous telescopic extension, functions: outlet, emergency overflow, venting, control, art. no. ____
10. ____ no. **MULTI-FUNCTION CHAMBER 400/2000**
made from PP, with closed cast iron cover, load class ____, nominal width 400, with telescopic adapter, inlet and outlet spigot DN 150, height of manhole 2,173 mm, can be extended up to 680 mm via continuous telescopic extension, functions: outlet, emergency overflow, venting, control, art. no. ____
11. ____ no. **DRAINFIX OUTLET SHAFT DN 1000**
with pipe connection possibility inlet and outlet DN 150, inlet height 794 mm, Shaft height 2345 mm, art. no. 96890

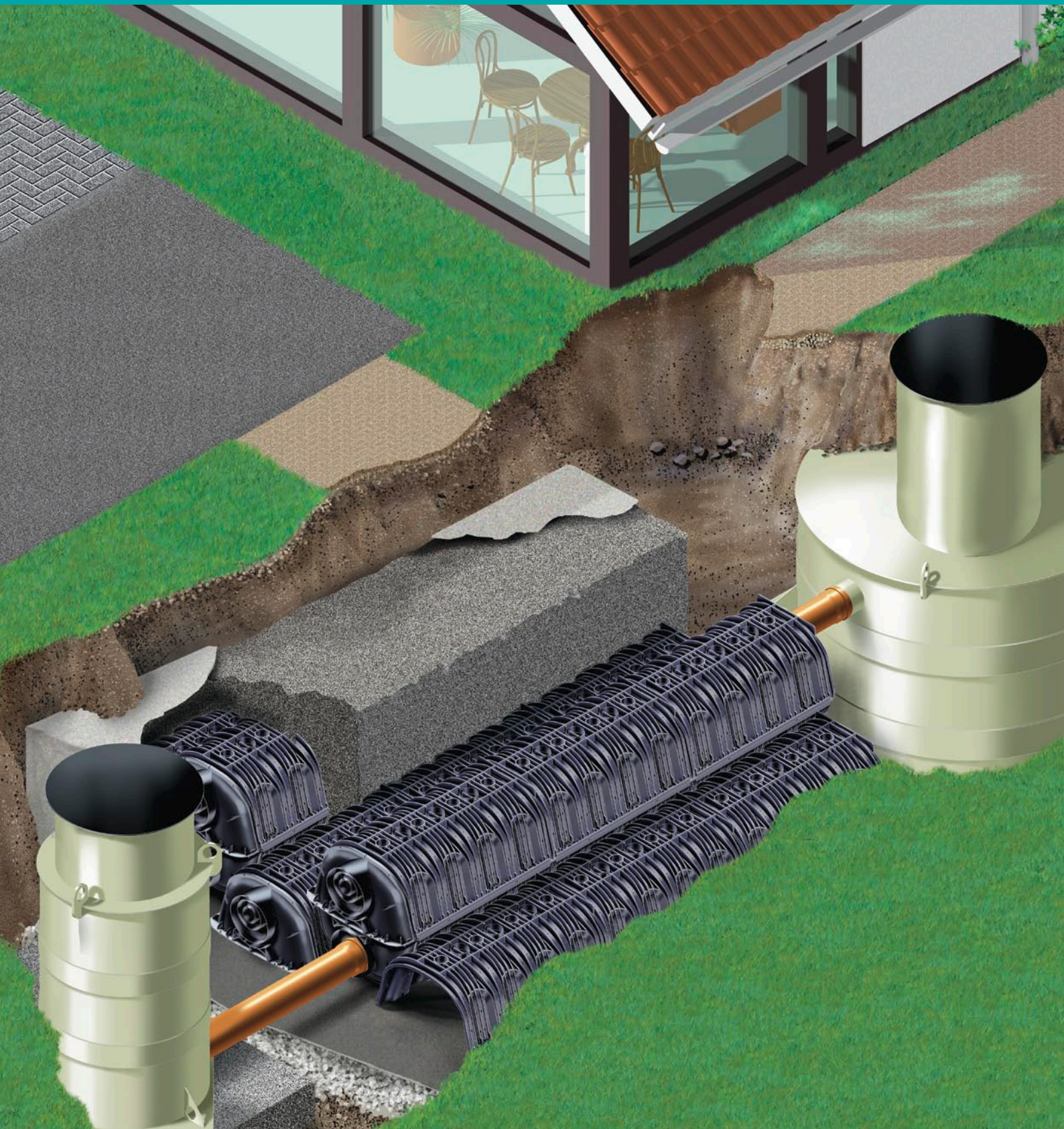
12. ____ no.. **CONNECTION ADAPTER**
for DRAINFIX BLOC, made from PP, for securing different layers of DRAINFIX BLOC against thrust, height 100 mm, art. no. 96110. When blocks laid in rows use 6 pieces, when laid in several layers use 4 pieces for each 2.40 m x 2.40 m area.
13. ____ no. **GEOTEXTILE, BY THE ROLL**
white, for wrapping up DRAINFIX BLOC, made from PP fleece, mechanically reinforced GRK 3, weight 200 g/m², length of roll 100 m, width of roll 4 m, art. no. 96120
14. ____ no. **GEOTEXTILE, BY THE METRE**
white, for wrapping up DRAINFIX BLOC, made from PP- fleece, mechanically reinforced GRK 3, weight 200 g/m², width 4 m, art. no. 96130

**TENDER PROPOSALS
ARE AVAILABLE AT
WWW.HAURATON.COM**

DRAINFIX[®]TWIN

HIGH VOLUME IN THE SMALLEST SPACE.

THE DOUBLE TUNNEL SYSTEM FOR USE UNDER LIGHT TRAFFIC ROADS.



AT A GLANCE

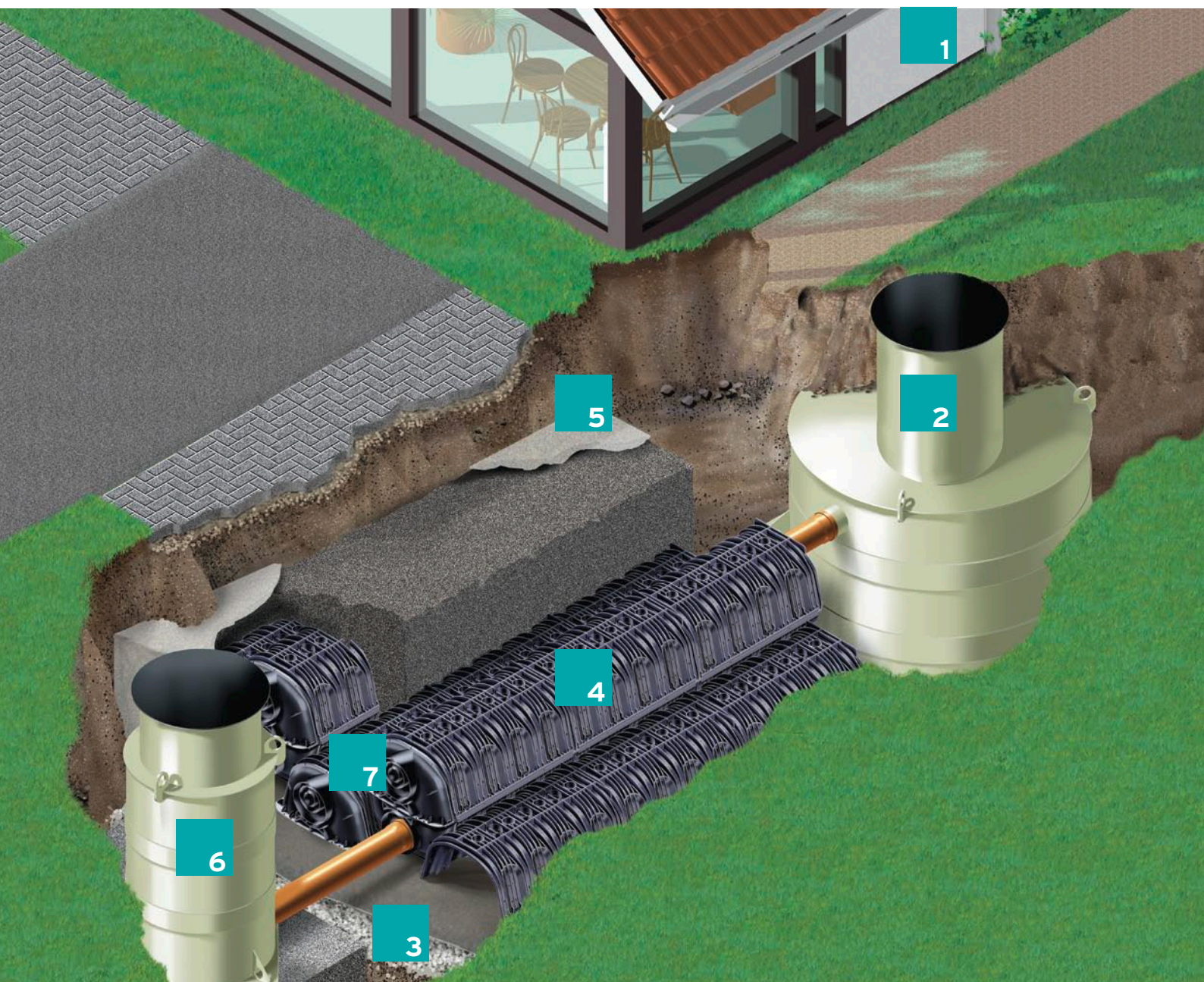
- ✓ Strong performance
 - suitable for passenger car loading
 - very large storage volume
 - areas remain free to be used
- ✓ Simple to install
 - very lightweight elements
 - easy modular installation
 - fully extendable
 - flexible installation alignment due to variable combinations
- ✓ Transport advantages
 - element halves stack into each other
 - low transport volume
 - low transport costs



DRAINFIX®TWIN

HIGH VOLUME IN THE SMALLEST SPACE.

THE DOUBLE TUNNEL SYSTEM FOR USE UNDER LIGHT TRAFFIC ROADS .



1

Water inlet pipe

Stormwater collection pipe channels water into the SHAFT

2

Water treatment plant

individual dimensioned plant to treat and filter dirt particles

3

Road level

Granular subbase on ground with infiltration capability

4

Infiltration element

DRAINFIX TWIN elements with high storage volume and even infiltration performance

5

Geotextile

Can be used to protect the infiltration trench from silting up (optional)

6

Flushing and control chamber

Flushing and control chamber for the control, cleaning and maintenance of the infiltration system

7

Combi end cap

End caps for closing the element ends or for connecting to SHAFT or drainage system

REQUIREMENTS

Decentralised infiltration facility in private and public areas with low traffic volumes. The elements used to fill the infiltration structure should be lightweight and easy to handle and offer maximum storage capacity for small space requirement. The material must be durable and strong. The surface area should remain usable.

SOLUTION

DRAINFIX TWIN are combinable infiltration elements with particularly large storage capacity. This large available volume makes it possible to collect large quantities of water. Subsequently, the water will be slowly released to the surrounding soil. Compared to conventional gravel-filled infiltration structures, site requirements and excavation are reduced by 2/3. The surface areas remain fully usable for other purposes.

APPLICATION AREAS

Collecting and storing stormwater for infiltration from sealed ground surfaces in private and public areas with low traffic volumes.

Depending on the installation details, the load class will range from pedestrian to passenger car traffic.

TRANSPORT ADVANTAGE

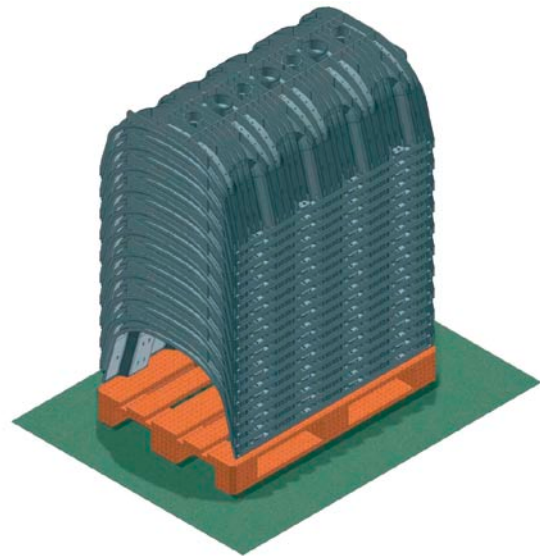
One Euro pallet will carry 32 stacked elements, which corresponds to approx. 8.1 m storage volume. It means favourable transport costs and small space requirements during storage.

DRAINFIX WATER TREATMENT PLANT

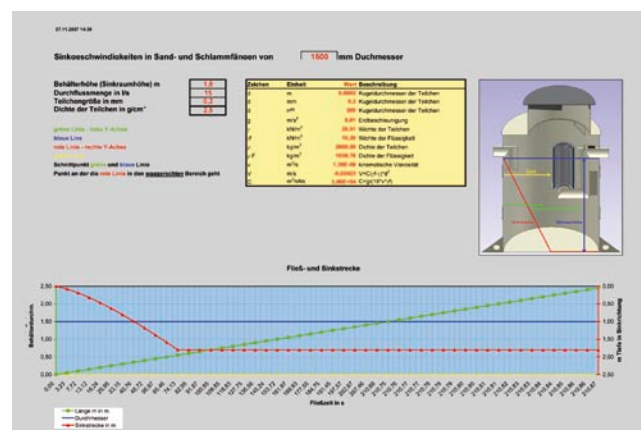
DRAINFIX Water treatment plants prevent dirt particles entering the infiltration system and protect it. With the aid of gravitation bigger dirt particles are sedimented in the individual dimensioned sedimentation zone. An extra built filter makes sure in the second step that also the smallest dirt particles are filtered. Size and design of these plants were dimensioned for each building project under consideration of all influencing factors (e.g. rainfall quantity and kind of dirt). HAURATON experts can support you for the dimensioning.



Huge back pressure volume



Stack of elements on pallet



DRAINFIX®TWIN

HIGH VOLUME IN THE SMALLEST SPACE.

THE DOUBLE TUNNEL SYSTEM FOR USE UNDER LIGHT TRAFFIC ROADS.

INFILTRATION SYSTEM USING VARIABLE PLASTIC ELEMENTS

DRAINFIX TWIN is a system solution for decentralised infiltration of stormwater in private and public spaces. The very large storage volume offers much reserve space for very sudden stormwater precipitation. The innovative design makes it possible to join the elements together in order to firmly connect individual elements to each other. The system is rounded off with end caps, SHAFTs and closed DRAINFIX TWIN elements for sedimentation and inspection.





1

■ DRAINFIX TWIN 1/1 made from plastic, with drainage holes, for retention and infiltration discharge of stormwater

■ The combination with elements without drainage holes allows numerous installation constellations

2

■ Plastic end cap with variable connection option to pipes DN 200 and DN 300

3

■ Multi-function plastic SHAFT DN 400 for inspection or filtering

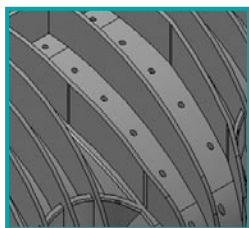
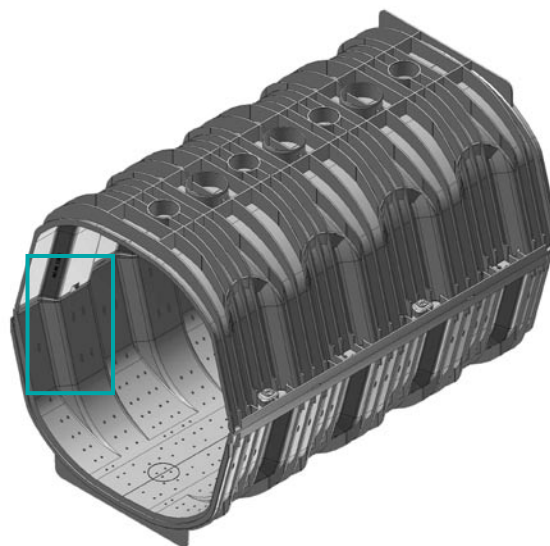
UNIQUE IN THE MARKET

- ✓ Elements with and without drainage holes can be combined
- ✓ Maximum variety of applications with only 2 elements
- ✓ Optimal capacity effect per area

DRAINFIX®TWIN

COMBINATION OPTIONS OF DRAINFIX TWIN ELEMENTS

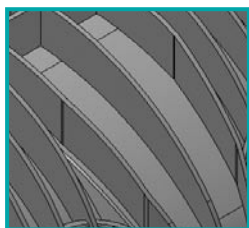
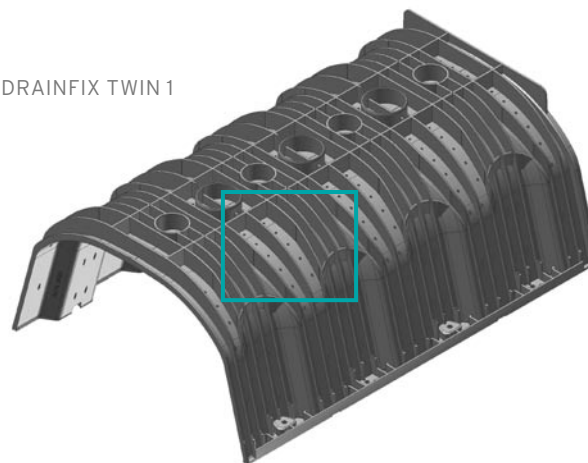
combination options to configure the ideal solution for different situations. Using the two basic elements DRAINFIX TWIN 1 with drainage holes and DRAINFIX TWIN 0 without drainage holes it is possible to configure six different combinations. These six combinations can be used to advantage to match the requirements of different situations on site. The aim is find an optimum combination of elements to suit the ground conditions and the characteristics of the elements. With just a few elements DRAINFIX TWIN offers maximum adaptability to ground conditions and the situation on site.



DRAINFIX TWIN 1

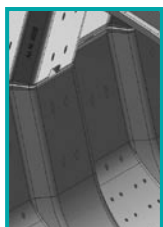
Element with drainage hole. Particularly suited for use in high or medium groundwater level areas.

DRAINFIX TWIN 1



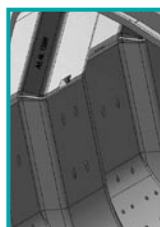
DRAINFIX TWIN 0

Element without drainage hole. Particularly suitable for installation underneath sealed surfaces or installations without separate gravel packing.



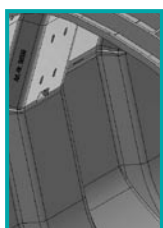
DRAINFIX TWIN 1/1

Upper and lower element have drainage holes. This combination is indicated for maximum infiltration discharge.



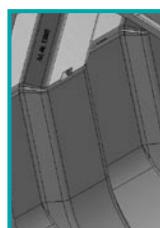
DRAINFIX TWIN 0/1

Only the lower element has drainage holes. This combination is particularly suitable where the dug out spoil is re-used.



DRAINFIX TWIN 1/0

Only the upper element has drainage holes. This combination is particularly suitable for sedimentation flushability of the infiltration structure.

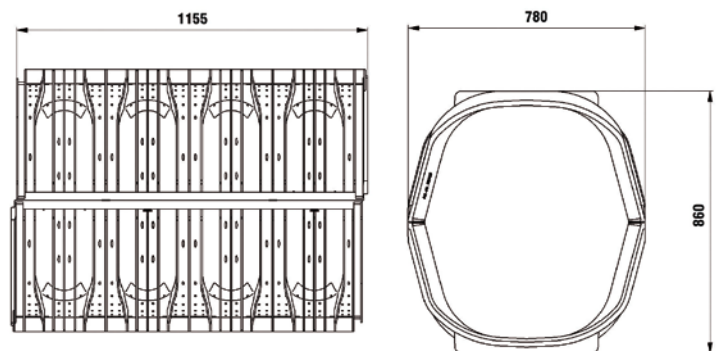


DRAINFIX TWIN 0/0

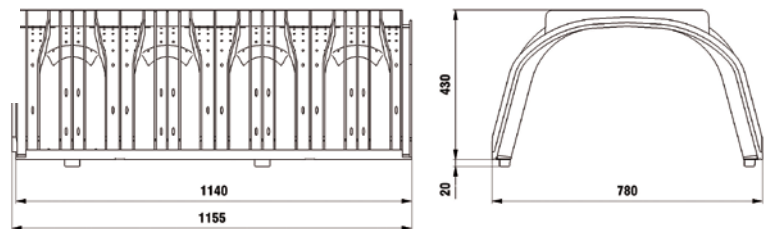
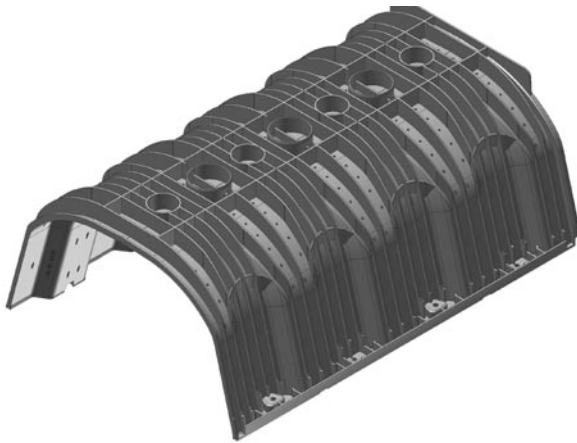
Neither the upper nor the lower element have drainage holes. The combination with closed elements is suitable as a sedimentation zone.

DRAINFIX®TWIN - Seepage element made of PP

TWIN 1/1, black (2 parts)*



TWIN 1, black (1 part)



| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| TWIN 1/1, black (2 parts)* | 1155 | 780 | 860 | 23,0 | 96550 |
| TWIN 0/0, black (2 parts), closed* | 1155 | 780 | 860 | 23,0 | 96610 |
| TWIN 0/1, black (2 parts), upper part closed* | 1155 | 780 | 860 | 23,0 | 96650 |
| TWIN 1/0, inspection, black (2 parts), lower part closed* | 1155 | 780 | 860 | 23,0 | 96660 |
| TWIN 1, black (1 part) | 1155 | 780 | 430 | 11,5 | 96500 |
| TWIN 0, black (1 part), closed | 1155 | 780 | 430 | 11,5 | 96600 |

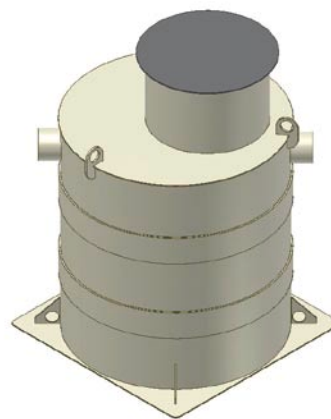
* including 4 times DRAINFIX TWIN fixing and 2 DRAINFIX TWIN connection clip.

DRAINFIX®TWIN

DRAINFIX® - Rainwater treatment plants



Type 10



Type 15

| | Length mm | Width mm | Height mm | Weight kg | external diameter mm | Flow capacity l/s | Article No. |
|---------|--------------|-------------|--------------|--------------|----------------------------|-------------------------|----------------|
| Type 10 | 1000 | 1000 | 2345 | - | 950 | 6 | 96450 |
| Type 12 | 1200 | 1200 | 2480 | - | 1190 | 10 | 96460 |
| Type 15 | 1500 | 1500 | 2704 | - | 1430 | 15 | 96470 |
| Type 20 | 2000 | 2000 | 2804 | - | 1910 | 20 | 96480 |
| Type 25 | 2500 | 2500 | 2654 | - | 2380 | 25 | 96490 |

All DRAINFIX - Rainwater treatment plants (ATV) are also applicable for DRAINFIX BLOC.

DRAINFIX® - Multifunction shafts



Filter shaft* 400/1500 with fine filter cartridge, with ductile iron grating, closed, class B 125

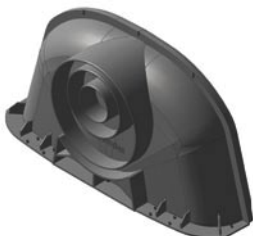


Discharge shaft DN 1000 with inlet and outlet DN 150

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| Filter shaft* 400/1500 with fine filter cartridge, with ductile iron grating, closed, class B 125 | 400 | - | 1673 | - | 96710 |
| Filter shaft* 400/1500 with fine filter cartridge, with ductile iron grating, closed, class D 400 | 400 | - | 1673 | - | 96720 |
| Filter shaft* 400/2000 with fine filter cartridge, with ductile iron grating, closed, class B 125 | 400 | - | 2173 | - | 96760 |
| Filter shaft* 400/2000 with fine filter cartridge, with ductile iron grating, closed, class D 400 | 400 | - | 2173 | - | 96770 |
| Multifunction shaft* 400/1500 with ductile iron grating, closed, class B 125 | 400 | - | 1673 | - | 96715 |
| Multifunction shaft* 400/1500 with ductile iron grating, closed, class D 400 | 400 | - | 1673 | - | 96725 |
| Multifunction shaft* 400/2000 with ductile iron grating, closed, class B 125 | 400 | - | 2173 | - | 96765 |
| Multifunction shaft* 400/2000 with ductile iron grating, closed, class D 400 | 400 | - | 2173 | - | 96775 |
| Discharge shaft DN 1000 with inlet and outlet DN 150 | 1000 | - | 2345 | - | 96890 |

* Height adjustable via telescope adaptation

DRAINFIX®TWIN - Accessories



End cap, black

| | Length mm | Width mm | Height mm | Weight kg | Article No. |
|---|--------------|-------------|--------------|--------------|----------------|
| End cap, black | 192 | 780 | 430 | 2,5 | 96530 |
| Geotextile from PP-fleece GRK3 rollware 4 x 100 m, 200 g/m ² | - | - | - | 80,0 | 96120 |
| Geotextile from PP-fleece GRK3, by the metre 4m ² / to cat | - | - | - | 0,2 | 96130 |

TENDER PROPOSALS

DRAINFIX TWIN INFILTRATION ELEMENTS

1. ____ no. **DRAINFIX TWIN 1/1,**
black, made from PP, element for infiltration trench, suitable for retaining, storing and releasing stormwater for infiltration, including 4 x DRAINFIX TWIN locking and 2 DRAINFIX TWIN connector brackets, load class for passenger cars, volume 506 l, l/w/h 1155 x 780 x 860 mm, weight 23.0 kg, art. no. 96550
To be supplied and laid in accordance with the manufacturer's installation instructions.
Quality in acc. with DIN EN ISO 9001:2000
Manufactured by: Hauraton GmbH & Co. KG
P. O. Box 16 61
D-76437 Rastatt, Germany
Tel.: +49-7222-958-0
Fax: +49-7222-958-102
E-Mail: export@hauraton.com
2. ____ no. **DRAINFIX TWIN 1/0,**
black, made from PP, element for infiltration trench, suitable for sedimentation and retention of stormwater, including 4 x DRAINFIX TWIN locking and 2 DRAINFIX TWIN connector brackets, load class for passenger cars, volume 506 l, l/w/h 1155 x 780 x 860 mm, weight 23.0 kg, art. no. 96650
3. ____ no. **DRAINFIX TWIN 0/1,**
black, made from PP, element for infiltration trench, suitable for retaining, storing and releasing stormwater for infiltration, including 4 x DRAINFIX TWIN locking and 2 DRAINFIX TWIN connector brackets, load class for passenger cars, volume 506 l, l/w/h 1155 x 780 x 860 mm, weight 23.0 kg, art. no. 96660
4. ____ no. **DRAINFIX TWIN 0/0,**
black, made from PP, element for infiltration trench, suitable for sedimentation and retention of stormwater, including 4 x DRAINFIX TWIN locking and 2 DRAINFIX TWIN connector brackets, load class for passenger cars, volume 506 l, l/w/h 1155 x 780 x 860 mm, weight 23.0 kg, art. no. ____
5. ____ no. **DRAINFIX TWIN 1**
black, made from PP, element for infiltration trench, suitable for retaining, storing and releasing stormwater for infiltration, load class for passenger cars, volume 253 l, l/w/h 1155 x 780 x 430 mm, weight 11.5 kg, art. no. 96500
6. ____ no. **DRAINFIX TWIN 0,**
black, made from PP, element for infiltration trench, suitable for sedimentation and retention of stormwater, also suitable for inspecting DRAINFIX TWIN infiltration systems, load class for passenger cars, volume 253 l, l/w/h 1155 x 780 x 430 mm, art. no. 96600

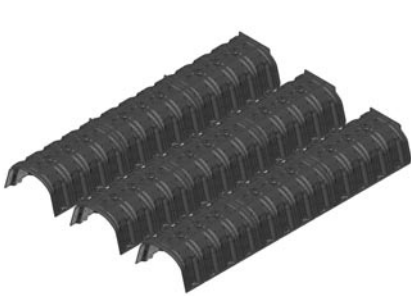
ACCESSORIES

7. ____ no. **DRAINFIX RAINWATER TREATMENT PLANT TYPE 10**
DN 1000 mm for 6 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 150; inlet height 794 mm, Shaft height 2345 mm, art. no. 96450
8. ____ no. **DRAINFIX RAINWATER TREATMENT PLANT TYPE 12**
DN 1200 mm for 10 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 150; inlet height 876 mm, Shaft height 2480 mm, art. no. 96460
9. ____ no. **DRAINFIX RAINWATER TREATMENT PLANT TYPE 15**
DN 1500 mm for 15 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 200; inlet height 896 mm, Shaft height 2704 mm, art. no. 96470
10. ____ no. **DRAINFIX RAINWATER TREATMENT PLANT TYPE 20**
DN 2000 mm for 20 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 200; inlet height 896 mm, Shaft height 2804 mm, art. no. 96480
11. ____ no. **DRAINFIX RAINWATER TREATMENT PLANT TYPE 25**
DN 2500 mm for 25 l/s, inlet in front of DRAINFIX ditch including filter element and sedimentation space; pipe connection possibility DN 200; inlet height 941 mm, Shaft height 2219 mm, art. no. 96490
12. ____ no. **FILTER MANHOLE 400/1500**
made from PP, with closed cast iron cover, load class __, nominal width 400, with telescopic extension and integrated sludge trap and fine filter cartridge with inspection facility, incl. visual maintenance display, inlet and outlet spigot DN 150, manhole height 2,173 mm, can be extended up to 180 mm via continuous telescopic extension, art. no. ____
13. ____ no. **FILTER MANHOLE 400/2000**
made from PP, with closed cast iron cover, load class __, nominal width 400, with telescopic extension and integrated sludge trap and fine filter cartridge with inspection facility, incl. visual maintenance display, inlet and outlet spigot DN 150, manhole height 2,173 mm, can be extended up to 180 mm via continuous telescopic extension, art. no. ____
14. ____ no. **MULTI-FUNCTION CHAMBER 400/1500**
made from PP, with closed cast iron cover, load class __, nominal width 400, with telescopic adapter, inlet and outlet spigot DN 150, height of manhole 1,673 mm, can be extended up to 680 mm via continuous telescopic extension, functions: outlet, emergency overflow, venting, control, art. no. ____
15. ____ no. **MULTI-FUNCTION CHAMBER 400/2000**
made from PP, with closed cast iron cover, load class __, nominal width 400, with telescopic adapter, inlet and outlet spigot DN 150, height of manhole 2,173 mm, can be extended up to 680 mm via continuous telescopic extension, functions: outlet, emergency overflow, venting, control, art. no. ____
16. ____ no. **DRAINFIX OUTLET SHAFT DN 1000**
with pipe connection possibility inlet and outlet DN 150, inlet height 794 mm, Shaft height 2345 mm, art. no. 96890
17. ____ no. **ENDCAP FOR DRAINFIX TWIN**
(2 pieces required for TWIN installation)
with combined outlet DN 100 / 200 / 300, art. no. 96530
18. ____ no. **GEOTEXTILE, BY THE ROLL**
white, for wrapping up DRAINFIX BLOC, made from PP- fleece, mechanically reinforced GRK 3, weight 200 g/m², length of roll 100 m, width of roll 4 m, art. no. 96120
19. ____ no. **GEOTEXTILE, BY THE METRE**
white, for wrapping up DRAINFIX BLOC, made from PP- fleece, mechanically reinforced GRK 3, weight 200 g/m², width 4 m, art. no. 96130

**TENDER PROPOSALS
ARE AVAILABLE AT
WWW.HAURATON.COM**

DRAINFIX TWIN INSTALLATION OPTIONS

DRAINFIX TWIN elements not only provide a number of combination options but can also be varied in their installation configuration. This feature of the system makes it possible to make the best use out of the available construction space. In that way the infiltration structure can be designed to suit the respective requirements.



DRAINFIX TWIN 1 - (single layer) low height of excavation, high load-bearing capacity

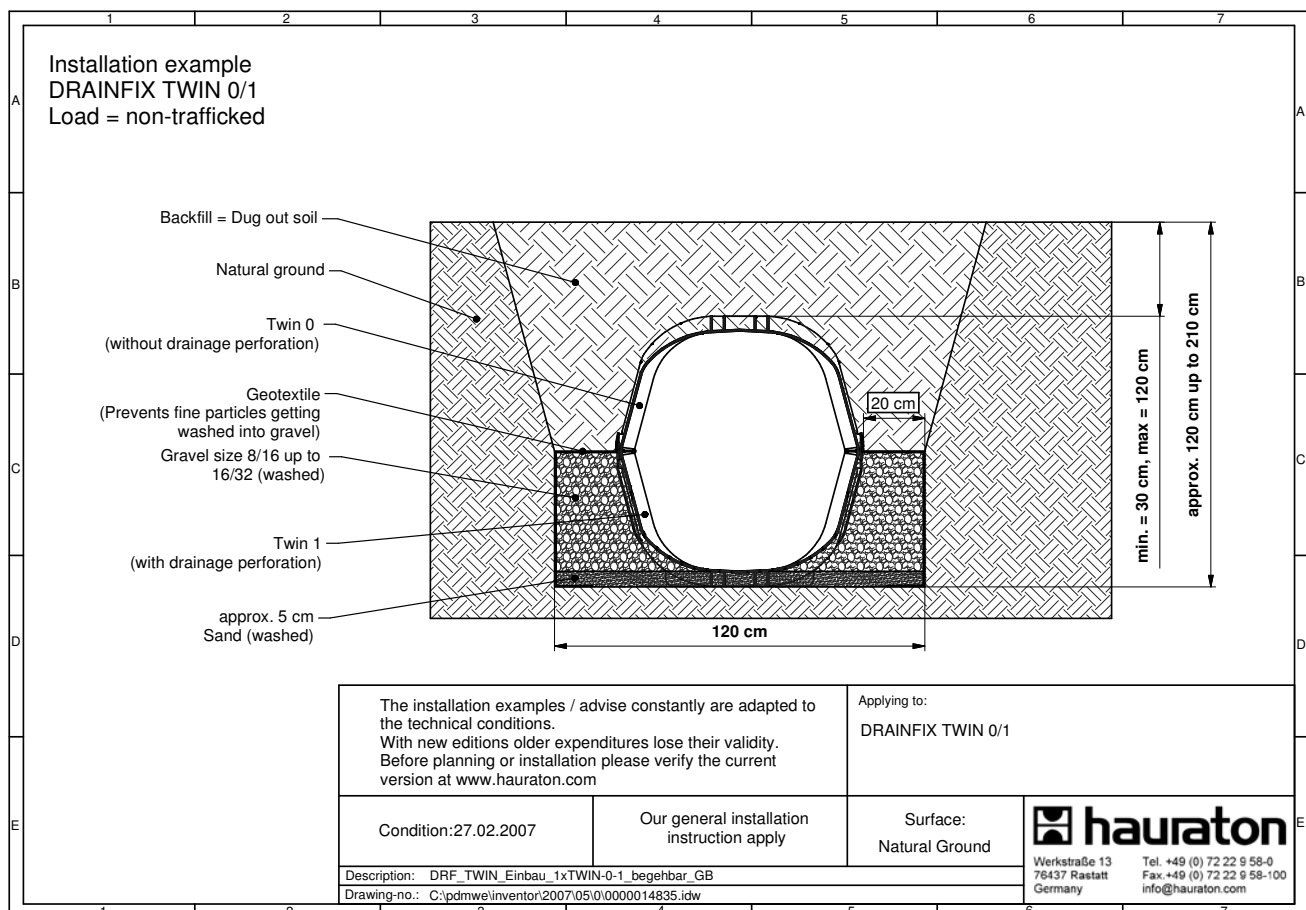


DRAINFIX TWIN 1/1 - (TWIN installation) large infiltration volume, medium load-bearing capacity of the infiltration structure



DRAINFIX TWIN 1/1 in combination with DRAINFIX TWIN 1 - (wave pattern) maximum volume for available area

INSTALLATION EXAMPLE

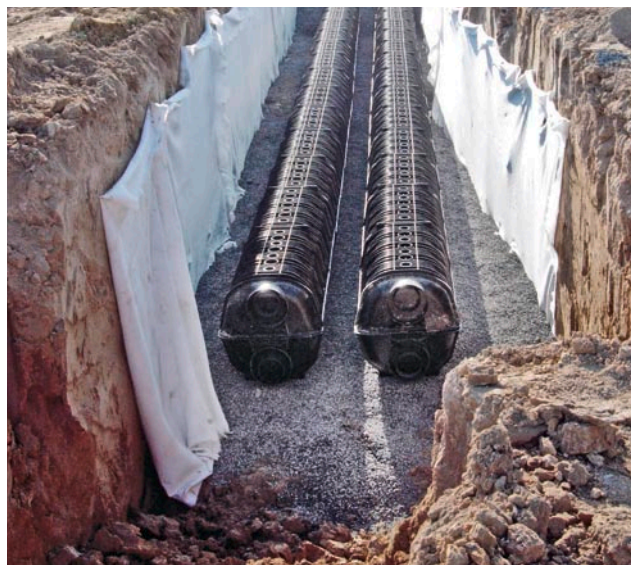


INSTALLING DRAINFIX TWIN

Prepare the pit and lay a level gravel subbase on the base of the pit, which should consist of soil with infiltration capability. Simply join the DRAINFIX TWIN elements together using the tongue and groove joint;

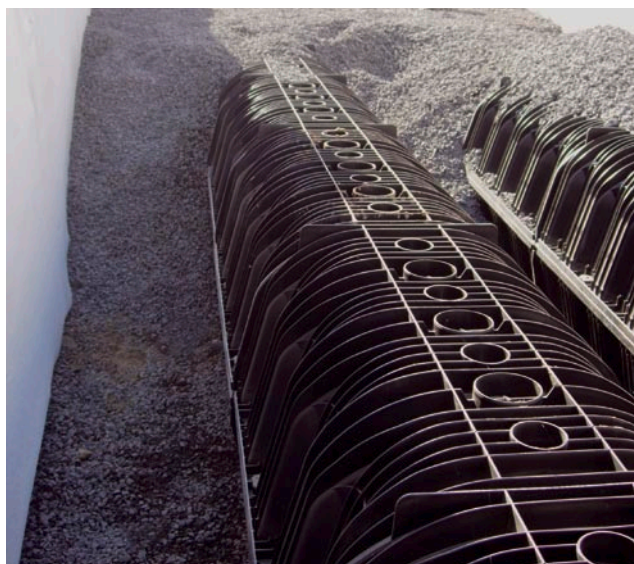


they will then form a homogenous system without cross bridges or braces within the infiltration cavity. Lay the elements and lock them into place using the connection brackets and the DRAINFIX TWIN locking device.



BACKFILLING THE INFILTRATION TRENCH

Once all connections have been made to SHAFTs and the system has been laid completely and closed at the ends with end caps, the infiltration trench is ready for backfilling. Fill material can be gravel or the spoil from digging out the trench.





CIVILS

LANDSCAPING

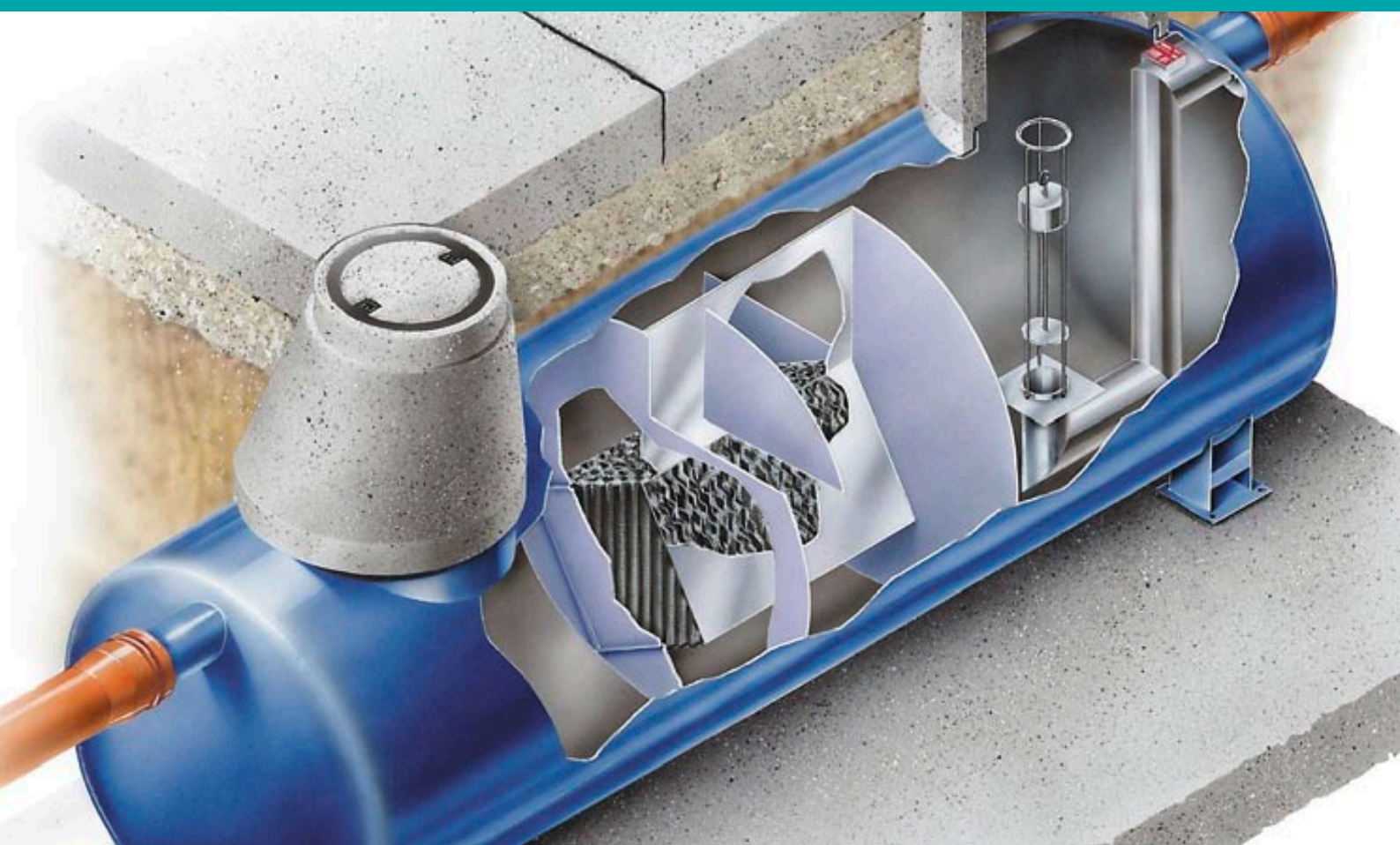
AQUA

SPORT

AQUA

AQUAFIX® SEPARATORS

 **hauraton**
IT'S RUNNING WELL



THE WATER TREATMENT RANGE.

MODERN SEPARATION TECHNOLOGY FOR SUSTAINABLE PRESERVATION OF VITAL RESOURCES.

Living rivers and lakes, intact groundwater resources, a secure and reliable water supply and efficient wastewater disposal are fundamental requirements for environmentally sound economic development. To avoid harming nature, contaminated water must be treated before it is allowed to flow directly or indirectly back into the natural water cycle.

The mechanical separation process is designed to separate mixtures of substances. The aim is to remove one or more components of the mixture.

The operating principle of the oil and light liquid separator is based on the difference in density between the water and the components being separated from it. The lighter liquid rises to the top, collects on the surface of the water and can then be removed and disposed off. Coalescence separators are an enhancement of standard petroleum separators. These systems work on the coalescence principle, i.e. encouraging the merging of small oil particles into larger ones. Even the smallest drops of oil will then float to the surface as a result of gravity, where they can be separated off.

AQUAFIX separators form part of a controlled disposal concept and will deliver many years of reliable performance. The range consists of high quality systems made of Polyethylene, Polypropylene, steel or concrete. Each system is individually measured and customised to suit the construction project, thus guaranteeing many years of efficient water treatment. AQUAFIX separators are always state of the art and comply with all relevant standards and regulations.



AQUAFIX®SEPARATORS
SERIES „G“ MADE OF STEEL



AQUAFIX®SEPARATORS
SERIES „k“ MADE OF STEEL



AQUAFIX®SEPARATORS
SERIES MADE OF CONCRETE (H/P/C)



AQUAFIX®SEPARATORS
SERIES „10 PE“ MADE OF POLYETHYLENE



AQUAFIX®SEPARATORS
SERIES „PP“ MADE OF POLYPROPYLENE



AQUAFIX®SEPARATORS
INSTALLATION INSTRUCTIONS

AQUAFIX® SEPARATORS

THE WATER TREATMENT RANGE.

MODERN SEPARATION TECHNOLOGY FOR SUSTAINABLE PRESERVATION OF VITAL RESOURCES.

REQUIREMENTS

Water is one of the most valuable resources on Earth. Germany has one of the best developed sewage systems in the world. If both are to be protected and kept in good condition for our descendants, efficient cleansing systems are required.

In fuel stations, industrial and commercial areas where surface water or effluents are polluted with hydrocarbon compounds, light liquid separators are needed that satisfy the rigorous requirements of the norms and regulations governing groundwater protection.

Effluents polluted with grease and fatty acids can cause enormous damage to drain systems and sewage plants. This is where AQUAFIX-Grease and Starch Separators make a valuable contribution to protecting the environment.

APPLICATION AREAS

Fuel stations, car washes, car repair workshops, car showrooms, oil depots, car scrap yards, transformer stations, industrial plants where lubricating oil is used, road haulage depots, police, fire brigade, army, maintenance/servicing areas, parking areas, car customisers and importers, canteen kitchens, student refectories, cafés and restaurants, hotels, cafeterias, producers of ready-made meals, producers of tinned foods, sweet factories, potato processing plants, producers of frozen foods, commercial bakeries, abattoirs, butchers, animal product processing plants, soap and stearin factories, cosmetics industry, cat and dog food producers, fair-ground operators and many more.

AQUAFIX® SEPARATORS

ALARM DEVICES.

SECURITY FOR THE ENVIRONMENT.

WARNING SYSTEMS

□ Warning system type 1

The W1 LAL-SRW-PF-01 warning system is an alarming device for light liquid separators (petrol, oil and coalescence separators) that is licensed for operation in potentially explosive areas (Zone 0). It is used to detect the oil layer thickness in a light liquid separator. The warning system consists of a signalling unit with LED's for „Power“, „System OK“, „Layer thickness alarm“ and „Sensor error“ and an acoustic alarm. The acoustic alarm can be manually disabled. The „Sensor error“ diode cannot be acknowledged until the cause of the alarm has actually been rectified.

A sensor that creates an electrical field is suspended in the separator. When the light liquid layer in a separator becomes thicker and the separating layer between the water and the light liquid is relocated downwards, the tip of the sensor is suspended in the light liquid. This affects the electrical field and an alarm is triggered.

Item no.: 134100



□ Warning system type 2

The W2 LAL-SRW-PF-08 warning system is an alarming device for light liquid separators. It has the same signalling unit, but has negative switching. In warning system 2 an alarm is signalled when current is flowing. As soon as the liquid level increases and the probe tips reach the surface of the water, an alarm is triggered. In this case the cause of the backup in the separator is irrelevant. For example, if the coalescence material is soiled and preventing an adequate water flow, an alarm is signalled. An alarm is also triggered if the pipeline behind the separator is blocked or the entire system is hydraulically overloaded because of heavy rainfall. Item no.: 134200



□ Warning system type 3

Has a signalling unit with two plug-in units and two probes. It is a combination of warning systems 1 and 2.

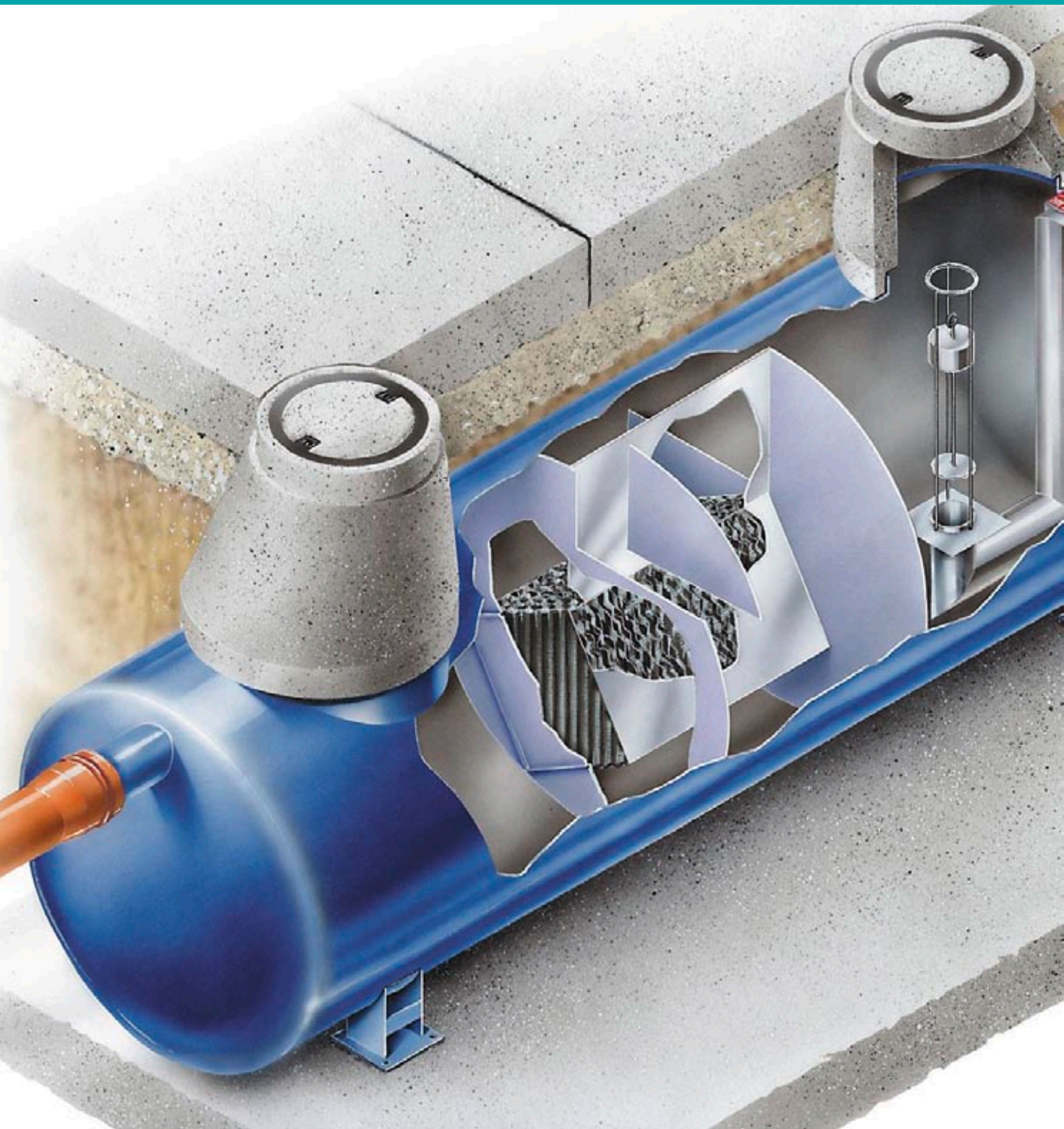
Item no. 134300



AQUAFIX® SEPARATORS

SERIES „G“ MADE OF STEEL

HIGHEST VOLUME FOR BIGGEST FLOW.



A photograph of an industrial facility, likely a cement plant, featuring large cylindrical silos and tall smokestacks emitting thick white smoke. The facility is situated behind a green field. A red callout box is overlaid on the bottom right of the image.

AT A GLANCE:

- ✓ Compact design
- ✓ Separator tank, continuously chargeable up to class D 400
- ✓ Galvanised inside and outside or coated with several layers of epoxy resin on pretreated surface

AQUAFIX® SEPARATORS

SERIES „G“ MADE OF STEEL

HIGHEST VOLUME FOR BIGGEST FLOW.

FEATURES

- Compact design
- Complies with standards EN 858/DIN 1999
- Inlets and outlets made from 6 mm steel plate, same diameter as KG pipes
- Patented float, easy to remove as required by the norm
- Easy to clean lamellar coalescence material
- Maintenance-free coalescence block
- Sampling system can be integrated
- Increased cleaning performance possible
- Warning systems can be integrated
- Additional coalescence element can be retrofitted

SHAFT MATERIALS

□ Extensions

The 625 and 1000 mm diameter access openings are designed to be completed with DIN 4034/1 shaft material. Shaft extensions can be supplied.





AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

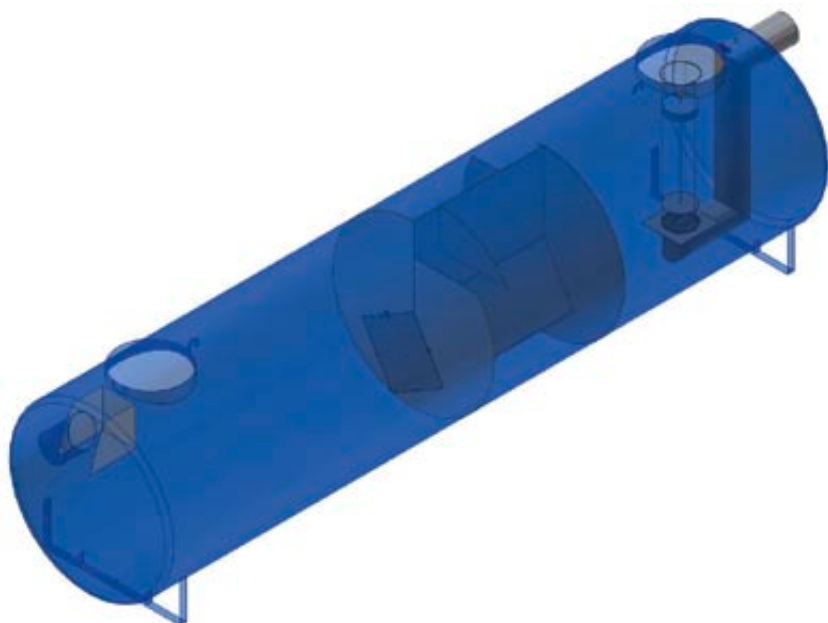
AQUAFIX® „10 PE“

AQUAFIX® „PP“

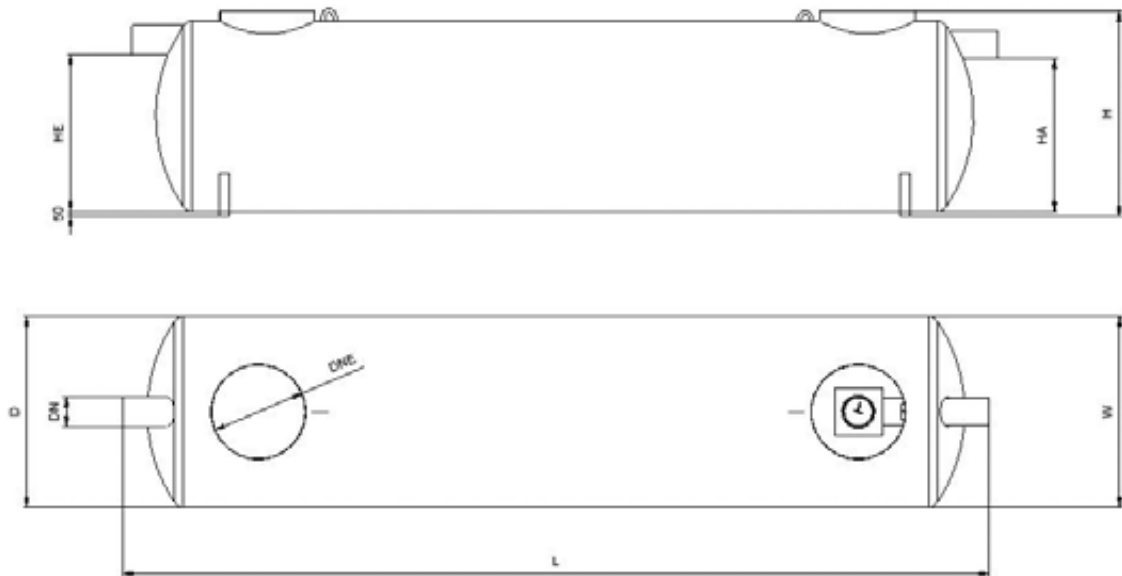
**INSTALLATION
INSTRUCTIONS**

AQUAFIX® Separators from steel - Series G

AQUAFIX® - SKG Coalescence separator with sludge trap



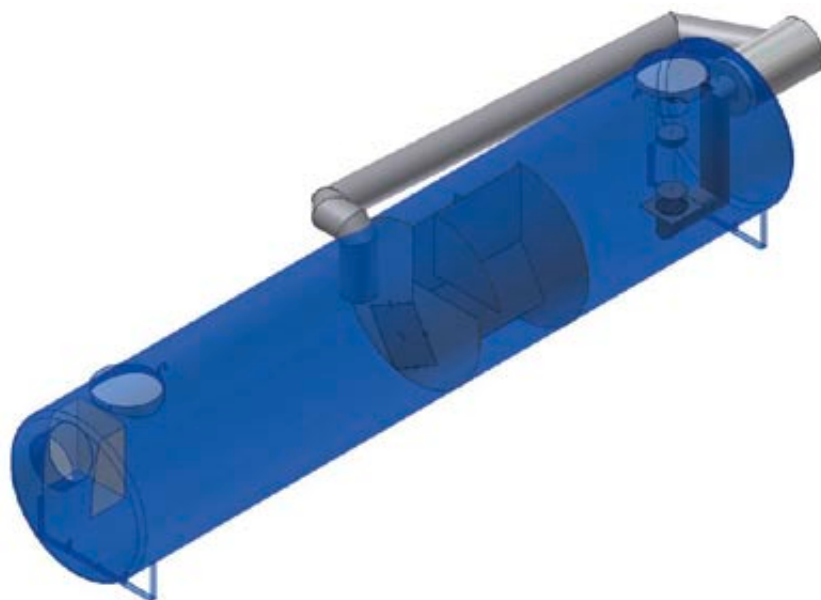
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|---------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKG 015 | 3860 | 1250 | 1400 | 15 | 1238 | 1580 |
| SKG 020 | 4960 | 1250 | 1400 | 20 | 1238 | 1890 |
| SKG 025 | 4550 | 1600 | 1750 | 25 | 1588 | 2900 |
| SKG 030 | 5200 | 1600 | 1750 | 30 | 1588 | 3620 |
| SKG 035 | 5600 | 1600 | 1750 | 35 | 1588 | 3800 |
| SKG 040 | 6020 | 1600 | 1750 | 40 | 1588 | 4710 |
| SKG 045 | 5150 | 2000 | 2150 | 45 | 1988 | 4850 |
| SKG 050 | 5450 | 2000 | 2150 | 50 | 1988 | 6100 |
| SKG 060 | 6040 | 2000 | 2150 | 60 | 1988 | 6930 |
| SKG 065 | 6350 | 2000 | 2150 | 65 | 1988 | 7380 |
| SKG 070 | 6750 | 2000 | 2150 | 70 | 1988 | 8040 |
| SKG 075 | 7200 | 2000 | 2150 | 75 | 1988 | 8320 |
| SKG 080 | 7660 | 2000 | 2150 | 80 | 1988 | 9150 |
| SKG 090 | 8240 | 2000 | 2150 | 90 | 1988 | 10260 |
| SKG 100 | 9100 | 2000 | 2150 | 100 | 1988 | 11370 |
| SKG 120 | 8100 | 2500 | 2650 | 120 | 2488 | 13520 |
| SKG 130 | 8100 | 2500 | 2650 | 130 | 2488 | 13520 |
| SKG 140 | 8440 | 2500 | 2650 | 140 | 2488 | 14220 |
| SKG 150 | 8440 | 2500 | 2650 | 150 | 2488 | 14220 |
| SKG 160 | 9740 | 2500 | 2650 | 160 | 2488 | 18100 |
| SKG 170 | 9740 | 2500 | 2650 | 170 | 2488 | 18100 |
| SKG 180 | 10540 | 2500 | 2650 | 180 | 2488 | 19820 |
| SKG 200 | 11300 | 2500 | 2650 | 200 | 2488 | 21540 |
| SKG 250 | 14100 | 2500 | 2650 | 250 | 2488 | 28270 |



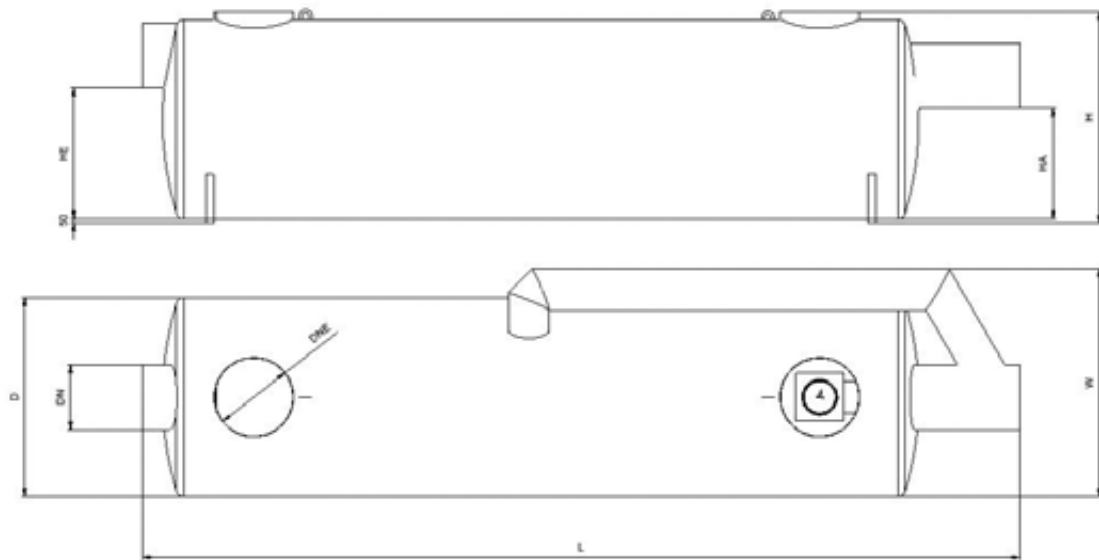
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1400 | 200 | 1000 | 950 | 625 | 625 | 1400,0 | 504 | 181015 |
| 2200 | 200 | 1000 | 950 | 625 | 625 | 1600,0 | 792 | 181020 |
| 3380 | 200 | 1350 | 1300 | 1000 | 1000 | 1800,0 | 828 | 181025 |
| 3820 | 200 | 1350 | 1300 | 1000 | 1000 | 1950,0 | 935 | 181030 |
| 4340 | 200 | 1350 | 1300 | 1000 | 1000 | 2100,0 | 1063 | 181035 |
| 4200 | 200 | 1350 | 1300 | 1000 | 1000 | 2250,0 | 1029 | 181040 |
| 6090 | 300 | 1650 | 1600 | 1000 | 1000 | 2850,0 | 1206 | 181045 |
| 5930 | 300 | 1650 | 1600 | 1000 | 1000 | 2950,0 | 1203 | 181050 |
| 6470 | 300 | 1650 | 1600 | 1000 | 1000 | 3150,0 | 1281 | 181060 |
| 6870 | 300 | 1650 | 1600 | 1000 | 1000 | 3300,0 | 1361 | 181065 |
| 7280 | 300 | 1650 | 1600 | 1000 | 1000 | 3400,0 | 1441 | 181070 |
| 8250 | 300 | 1650 | 1600 | 1000 | 1000 | 3600,0 | 1633 | 181075 |
| 8680 | 300 | 1650 | 1600 | 1000 | 1000 | 3800,0 | 1718 | 181080 |
| 9160 | 300 | 1650 | 1600 | 1000 | 1000 | 4000,0 | 1814 | 181090 |
| 10400 | 300 | 1650 | 1600 | 1000 | 1000 | 4300,0 | 2060 | 181100 |
| 16000 | 400 | 2050 | 2000 | 1000 | 1000 | 5200,0 | 2491 | 181120 |
| 16000 | 400 | 2050 | 2000 | 1000 | 1000 | 5250,0 | 2491 | 181130 |
| 16840 | 400 | 2050 | 2000 | 1000 | 1000 | 5550,0 | 2623 | 181140 |
| 16840 | 400 | 2050 | 2000 | 1000 | 1000 | 5600,0 | 2623 | 181150 |
| 18530 | 400 | 2050 | 2000 | 1000 | 1000 | 6050,0 | 2885 | 181160 |
| 18530 | 400 | 2050 | 2000 | 1000 | 1000 | 6100,0 | 2885 | 181170 |
| 20210 | 400 | 2050 | 2000 | 1000 | 1000 | 6500,0 | 3148 | 181180 |
| 21730 | 400 | 2050 | 2000 | 1000 | 1000 | 6700,0 | 3384 | 181200 |
| 26950 | 400 | 2050 | 2000 | 1000 | 1000 | 7650,0 | 4197 | 181250 |

AQUAFIX® Separators from steel - Series G

AQUAFIX® - SKGBP Coalescence separator with sludge trap and bypass



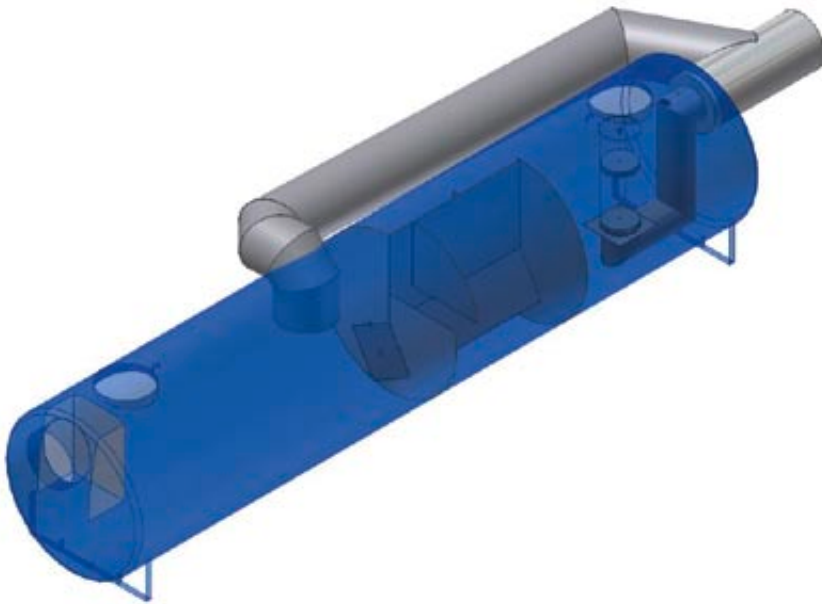
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|-----------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKGBP 015 | 4700 | 1500 | 1400 | 75 | 1238 | 1500 |
| SKGBP 020 | 5825 | 1500 | 1400 | 100 | 1238 | 2300 |
| SKGBP 025 | 5235 | 1900 | 1750 | 125 | 1588 | 2990 |
| SKGBP 030 | 6300 | 1900 | 1750 | 150 | 1588 | 3960 |
| SKGBP 035 | 6300 | 1900 | 1750 | 175 | 1588 | 3960 |
| SKGBP 040 | 7200 | 1900 | 1750 | 200 | 1588 | 4850 |
| SKGBP 045 | 5400 | 2200 | 2150 | 225 | 1988 | 5120 |
| SKGBP 050 | 6000 | 2200 | 2150 | 250 | 1988 | 5690 |
| SKGBP 055 | 6300 | 2200 | 2150 | 275 | 1988 | 5920 |
| SKGBP 060 | 6300 | 2200 | 2150 | 300 | 1988 | 5920 |
| SKGBP 065 | 7200 | 2200 | 2150 | 325 | 1988 | 7460 |
| SKGBP 070 | 8000 | 2200 | 2150 | 350 | 1988 | 8390 |
| SKGBP 075 | 8000 | 2200 | 2150 | 375 | 1988 | 8390 |
| SKGBP 080 | 8500 | 2200 | 2150 | 400 | 1988 | 8600 |
| SKGBP 090 | 7300 | 2800 | 2650 | 450 | 2488 | 10010 |
| SKGBP 100 | 7300 | 2800 | 2650 | 500 | 2488 | 10010 |
| SKGBP 120 | 8800 | 2800 | 2650 | 600 | 2488 | 14010 |
| SKGBP 130 | 9600 | 2800 | 2650 | 650 | 2488 | 14580 |
| SKGBP 140 | 10300 | 2900 | 2650 | 700 | 2488 | 15640 |
| SKGBP 150 | 11000 | 2900 | 2650 | 750 | 2488 | 16710 |
| SKGBP 160 | 11500 | 2900 | 2650 | 800 | 2488 | 17780 |
| SKGBP 170 | 12000 | 2900 | 2650 | 850 | 2488 | 19020 |
| SKGBP 180 | 12700 | 2900 | 2650 | 900 | 2488 | 20090 |
| SKGBP 200 | 13900 | 2900 | 2650 | 1000 | 2488 | 22220 |
| SKGBP 250 | 17200 | 2900 | 2650 | 1250 | 2488 | 28440 |



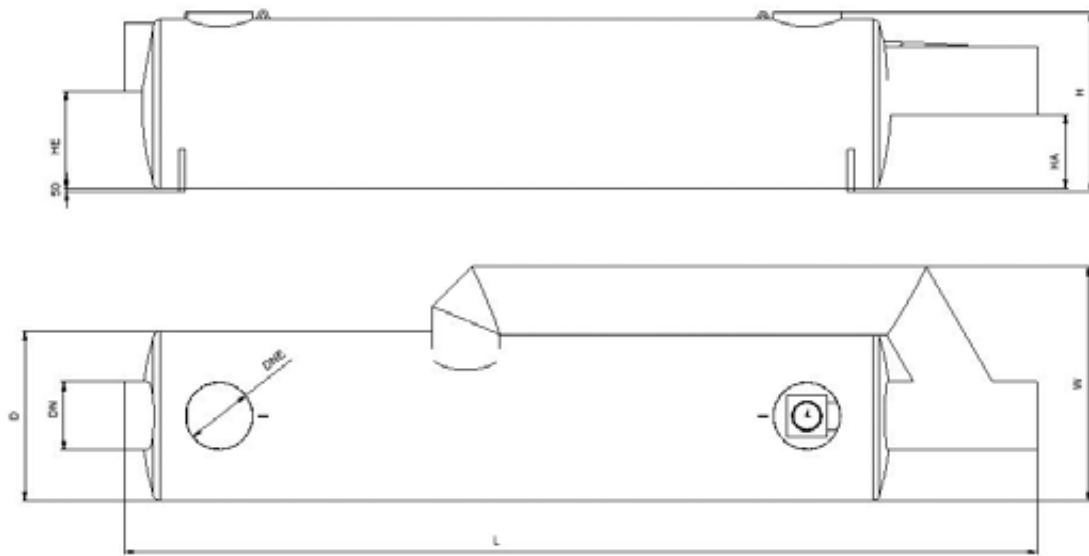
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1770 | 300 | 920 | 870 | 625 | 625 | 1700,0 | 694 | 182015 |
| 2080 | 300 | 920 | 870 | 625 | 625 | 1900,0 | 814 | 182020 |
| 2940 | 400 | 1150 | 1000 | 1000 | 1000 | 2350,0 | 887 | 182025 |
| 4020 | 400 | 1150 | 1000 | 1000 | 1000 | 2700,0 | 1215 | 182030 |
| 4020 | 400 | 1150 | 1000 | 1000 | 1000 | 2750,0 | 1215 | 182035 |
| 4330 | 400 | 1150 | 1000 | 1000 | 1000 | 3050,0 | 1308 | 182040 |
| 5750 | 400 | 1550 | 1450 | 1000 | 1000 | 3100,0 | 1207 | 182045 |
| 5490 | 500 | 1450 | 1300 | 1000 | 1000 | 3300,0 | 1292 | 182050 |
| 6220 | 500 | 1450 | 1300 | 1000 | 1000 | 3500,0 | 1465 | 182055 |
| 6220 | 500 | 1450 | 1300 | 1000 | 1000 | 3600,0 | 1465 | 182060 |
| 6950 | 500 | 1450 | 1300 | 1000 | 1000 | 4050,0 | 1637 | 182065 |
| 7810 | 500 | 1450 | 1300 | 1000 | 1000 | 4250,0 | 1838 | 182070 |
| 7810 | 500 | 1450 | 1300 | 1000 | 1000 | 4300,0 | 1838 | 182075 |
| 9030 | 500 | 1450 | 1300 | 1000 | 1000 | 4500,0 | 2125 | 182080 |
| 12510 | 600 | 1850 | 1650 | 1000 | 1000 | 5450,0 | 2249 | 182090 |
| 12510 | 600 | 1850 | 1650 | 1000 | 1000 | 5600,0 | 2249 | 182100 |
| 14610 | 600 | 1850 | 1700 | 1000 | 1000 | 6150,0 | 2628 | 182120 |
| 13400 | 800 | 1650 | 1400 | 1000 | 1000 | 6300,0 | 2901 | 182130 |
| 14900 | 800 | 1650 | 1400 | 1000 | 1000 | 6700,0 | 3050 | 182140 |
| 15120 | 800 | 1650 | 1400 | 1000 | 1000 | 6900,0 | 3273 | 182150 |
| 16150 | 800 | 1650 | 1400 | 1000 | 1000 | 7450,0 | 3497 | 182160 |
| 17010 | 800 | 1650 | 1400 | 1000 | 1000 | 7650,0 | 3682 | 182170 |
| 18040 | 800 | 1650 | 1400 | 1000 | 1000 | 7950,0 | 3905 | 182180 |
| 20110 | 800 | 1650 | 1400 | 1000 | 1000 | 8650,0 | 4352 | 182200 |
| 25430 | 800 | 1650 | 1400 | 1000 | 1000 | 10400,0 | 5505 | 182250 |

AQUAFIX® Separators from steel - Series G

AQUAFIX® - SKG2BP Coalescence separator with sludge trap and bypass with increased flow



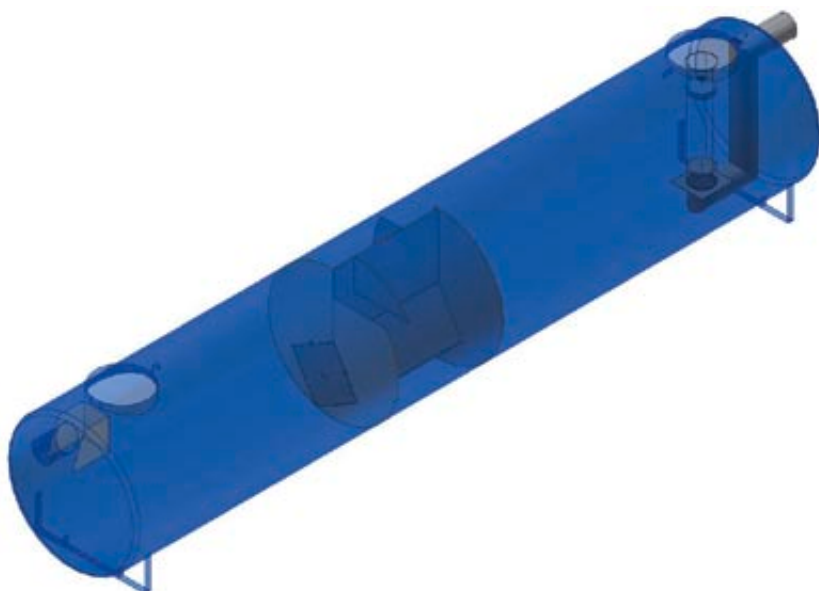
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKG2BP 015 | 5000 | 1700 | 1400 | 150 | 1238 | 1510 |
| SKG2BP 020 | 6300 | 1700 | 1400 | 200 | 1238 | 2310 |
| SKG2BP 025 | 5100 | 2100 | 1750 | 250 | 1588 | 2990 |
| SKG2BP 030 | 7100 | 2100 | 1750 | 300 | 1588 | 4050 |
| SKG2BP 035 | 7100 | 2100 | 1750 | 350 | 1588 | 4050 |
| SKG2BP 040 | 8200 | 2100 | 1750 | 400 | 1588 | 4860 |
| SKG2BP 045 | 6000 | 2500 | 2150 | 450 | 1988 | 5310 |
| SKG2BP 050 | 6200 | 2500 | 2150 | 500 | 1988 | 5690 |
| SKG2BP 055 | 7400 | 2600 | 2150 | 550 | 1988 | 6110 |
| SKG2BP 060 | 7400 | 2600 | 2150 | 600 | 1988 | 6110 |
| SKG2BP 065 | 8200 | 2600 | 2150 | 650 | 1988 | 7520 |
| SKG2BP 070 | 9100 | 2600 | 2150 | 700 | 1988 | 8460 |
| SKG2BP 075 | 9100 | 2600 | 2150 | 750 | 1988 | 8460 |
| SKG2BP 080 | 11900 | 2900 | 2150 | 800 | 1988 | 8850 |
| SKG2BP 090 | 9000 | 3300 | 2650 | 900 | 2488 | 9950 |
| SKG2BP 100 | 9000 | 3300 | 2650 | 1000 | 2488 | 9950 |
| SKG2BP 120 | 10700 | 3300 | 2650 | 1200 | 2488 | 13860 |
| SKG2BP 130 | 11500 | 3300 | 2650 | 1300 | 2488 | 14580 |
| SKG2BP 140 | 13000 | 3500 | 2650 | 1400 | 2488 | 15970 |
| SKG2BP 150 | 13500 | 3500 | 2650 | 1500 | 2488 | 16890 |
| SKG2BP 160 | 14500 | 3500 | 2650 | 1600 | 2488 | 18120 |
| SKG2BP 170 | 15000 | 3500 | 2650 | 1700 | 2488 | 19350 |
| SKG2BP 180 | 15800 | 3500 | 2650 | 1800 | 2488 | 20270 |
| SKG2BP 200 | 11800 | 3900 | 3050 | 2000 | 2888 | 20640 |
| SKG2BP 250 | 13700 | 3900 | 3050 | 2500 | 2888 | 25220 |



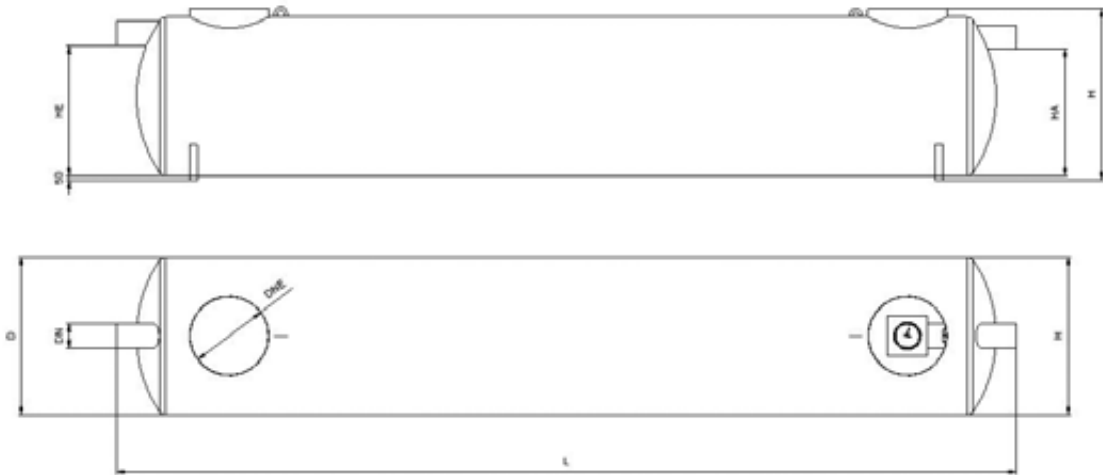
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1740 | 400 | 820 | 670 | 625 | 625 | 2300,0 | 812 | 184015 |
| 2070 | 400 | 820 | 670 | 625 | 625 | 2700,0 | 967 | 184020 |
| 2940 | 400 | 1150 | 1000 | 1000 | 1000 | 2800,0 | 888 | 184025 |
| 4060 | 500 | 1050 | 850 | 1000 | 1000 | 3250,0 | 1116 | 184030 |
| 4060 | 500 | 1050 | 850 | 1000 | 1000 | 3300,0 | 1116 | 184035 |
| 4760 | 500 | 1050 | 850 | 1000 | 1000 | 3750,0 | 1456 | 184040 |
| 5370 | 500 | 1450 | 1300 | 1000 | 1000 | 3800,0 | 1493 | 184045 |
| 5490 | 500 | 1450 | 1300 | 1000 | 1000 | 3900,0 | 1551 | 184050 |
| 6320 | 600 | 1350 | 1150 | 1000 | 1000 | 4500,0 | 1784 | 184055 |
| 6320 | 600 | 1350 | 1150 | 1000 | 1000 | 4600,0 | 1784 | 184060 |
| 6990 | 600 | 1350 | 1150 | 1000 | 1000 | 4650,0 | 1962 | 184065 |
| 7900 | 600 | 1350 | 1150 | 1000 | 1000 | 5050,0 | 2081 | 184070 |
| 7900 | 600 | 1350 | 1150 | 1000 | 1000 | 5100,0 | 2081 | 184075 |
| 9330 | 800 | 1150 | 850 | 1000 | 1000 | 6400,0 | 3124 | 184080 |
| 12720 | 800 | 1650 | 1400 | 1000 | 1000 | 6700,0 | 2752 | 184090 |
| 12720 | 800 | 1650 | 1400 | 1000 | 1000 | 6800,0 | 2752 | 184100 |
| 15120 | 800 | 1650 | 1400 | 1000 | 1000 | 7500,0 | 3273 | 184120 |
| 16840 | 800 | 1650 | 1400 | 1000 | 1000 | 7900,0 | 3645 | 184130 |
| 14440 | 1000 | 1450 | 1100 | 1000 | 1000 | 8000,0 | 3795 | 184140 |
| 15320 | 1000 | 1450 | 1100 | 1000 | 1000 | 8200,0 | 4027 | 184150 |
| 16500 | 1000 | 1450 | 1100 | 1000 | 1000 | 8900,0 | 4337 | 184160 |
| 17090 | 1000 | 1450 | 1100 | 1000 | 1000 | 9500,0 | 4492 | 184170 |
| 18270 | 1000 | 1450 | 1100 | 1000 | 1000 | 10350,0 | 4802 | 184180 |
| 19120 | 1000 | 1850 | 1500 | 1000 | 1000 | 10800,0 | 3742 | 184200 |
| 22820 | 1000 | 1850 | 1450 | 1000 | 1000 | 11200,0 | 4654 | 184250 |

AQUAFIX® Separators from steel - Series G

AQUAFIX® - SKGL Coalescence separator with increased cleaning performance



| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|----------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKGL 015 | 4660 | 1250 | 1400 | 15 | 1238 | 1580 |
| SKGL 020 | 6260 | 1250 | 1400 | 20 | 1238 | 1890 |
| SKGL 025 | 5720 | 1600 | 1750 | 25 | 1588 | 2900 |
| SKGL 030 | 6420 | 1600 | 1750 | 30 | 1588 | 3620 |
| SKGL 035 | 7020 | 1600 | 1750 | 35 | 1588 | 3800 |
| SKGL 040 | 7620 | 1600 | 1750 | 40 | 1588 | 4710 |
| SKGL 045 | 6440 | 2000 | 2150 | 45 | 1988 | 4850 |
| SKGL 050 | 6840 | 2000 | 2150 | 50 | 1988 | 5820 |
| SKGL 060 | 7440 | 2000 | 2150 | 60 | 1988 | 6930 |
| SKGL 065 | 7740 | 2000 | 2150 | 65 | 1988 | 7490 |
| SKGL 070 | 8340 | 2000 | 2150 | 70 | 1988 | 8040 |
| SKGL 075 | 8940 | 2000 | 2150 | 75 | 1988 | 8320 |
| SKGL 080 | 9540 | 2000 | 2150 | 80 | 1988 | 9150 |
| SKGL 090 | 10240 | 2000 | 2150 | 90 | 1988 | 10260 |
| SKGL 100 | 11340 | 2000 | 2150 | 100 | 1988 | 11370 |
| SKGL 120 | 9940 | 2500 | 2650 | 120 | 2488 | 13790 |
| SKGL 130 | 9940 | 2500 | 2650 | 130 | 2488 | 13790 |
| SKGL 140 | 10740 | 2500 | 2650 | 140 | 2488 | 14220 |
| SKGL 150 | 10740 | 2500 | 2650 | 150 | 2488 | 14220 |
| SKGL 160 | 11940 | 2500 | 2650 | 160 | 2488 | 18100 |
| SKGL 170 | 11940 | 2500 | 2650 | 170 | 2488 | 18100 |
| SKGL 180 | 12940 | 2500 | 2650 | 180 | 2488 | 19820 |
| SKGL 200 | 14240 | 2500 | 2650 | 200 | 2488 | 21540 |
| SKGL 250 | 17740 | 2500 | 2650 | 250 | 2488 | 28440 |



| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 2200 | 200 | 1000 | 950 | 625 | 625 | 1500,0 | 792 | 186015 |
| 3500 | 200 | 1000 | 950 | 625 | 625 | 2500,0 | 1260 | 186020 |
| 5430 | 200 | 1350 | 1300 | 1000 | 1000 | 3000,0 | 1329 | 186025 |
| 5950 | 200 | 1350 | 1300 | 1000 | 1000 | 3350,0 | 1458 | 186030 |
| 6830 | 200 | 1350 | 1300 | 1000 | 1000 | 3500,0 | 1672 | 186035 |
| 7000 | 200 | 1350 | 1300 | 1000 | 1000 | 3800,0 | 1715 | 186040 |
| 9570 | 300 | 1650 | 1600 | 1000 | 1000 | 3350,0 | 1894 | 186045 |
| 9700 | 300 | 1650 | 1600 | 1000 | 1000 | 3450,0 | 1921 | 186050 |
| 10240 | 300 | 1650 | 1600 | 1000 | 1000 | 3700,0 | 2028 | 186060 |
| 10510 | 300 | 1650 | 1600 | 1000 | 1000 | 3850,0 | 2081 | 186065 |
| 11590 | 300 | 1650 | 1600 | 1000 | 1000 | 4050,0 | 2294 | 186070 |
| 12940 | 300 | 1650 | 1600 | 1000 | 1000 | 4200,0 | 2561 | 186075 |
| 13740 | 300 | 1650 | 1600 | 1000 | 1000 | 4500,0 | 2721 | 186080 |
| 14550 | 300 | 1650 | 1600 | 1000 | 1000 | 4700,0 | 1761 | 186090 |
| 16440 | 300 | 1650 | 1600 | 1000 | 1000 | 4800,0 | 3255 | 186100 |
| 23580 | 400 | 2050 | 2000 | 1000 | 1000 | 6100,0 | 3672 | 186120 |
| 23580 | 400 | 2050 | 2000 | 1000 | 1000 | 6200,0 | 3672 | 186130 |
| 26530 | 400 | 2050 | 2000 | 1000 | 1000 | 6500,0 | 4131 | 186140 |
| 26530 | 400 | 2050 | 2000 | 1000 | 1000 | 6550,0 | 4131 | 186150 |
| 27790 | 400 | 2050 | 2000 | 1000 | 1000 | 7500,0 | 3672 | 186160 |
| 27790 | 400 | 2050 | 2000 | 1000 | 1000 | 7600,0 | 3672 | 186170 |
| 30320 | 400 | 2050 | 2000 | 1000 | 1000 | 7700,0 | 4722 | 186180 |
| 34110 | 400 | 2050 | 2000 | 1000 | 1000 | 7800,0 | 5312 | 186200 |
| 42110 | 400 | 2050 | 2000 | 1000 | 1000 | 8500,0 | 6558 | 186250 |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

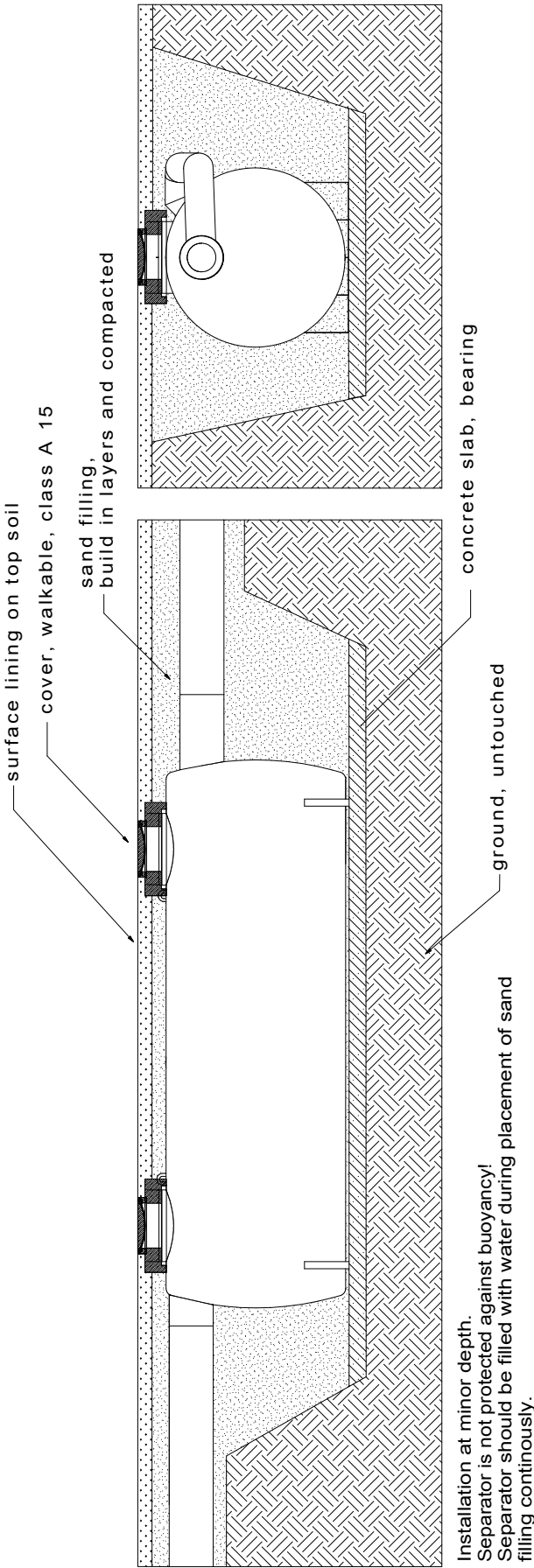
SEPARATORS SERIES „G“ MADE OF STEEL

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES „G“ MADE OF STEEL

1. Please check completeness of delivery and immediately note any parts that are missing or were damaged in transit on the delivery note. Complaints received at a later date will not be accepted. Otherwise our general business terms and conditions apply.
2. The separator must be installed outside the washing areas where it will not overflow or back up. It must also be as close as possible to the source of the sewage, in the open but protected from the frost and easy to access by cleaning vehicles. The outlets and pipes must be able to drain off.
3. The excavation base must be level. If no suitable soil is available a 10 mm thick compressed bed of sand or small pebbles can be used. A foundation plate would be even better. If the foundation soil is non-supporting, make a statically dimensioned foundation plate.
4. Take thickness of base and correction layer into consideration in height calculations. Pay attention to height information in installation drawing.
5. Tank must be installed in a level position.
6. The material must be level as it flows through the separator. Inlets and outlets must be correctly aligned. The inlet and outlet must not be the wrong way around! Use the correct gradient! Recommended total gradient of system must be 2-5%!
7. Install system with top edge higher than last inlet point.
8. Pipelines must be connected without leaks.
9. After all tanks, tops, covers and connecting pipes have been correctly aligned, clean the system!
10. Before filling up the system, fill all tanks with fresh water and check for leaks. The leak test is mandatory!
11. Do not modify tank or pipes again after filling with sand and compressing. Please refer to provided installation drawing.
12. Attach concrete plate to provide buoyancy protection if necessary.
13. When fitting the dome shafts, ensure that the seals are correctly seated! Please use an adequate quantity of lubricant. We recommend laying the shaft elements beneath each other in mortar.
14. With liquid separation systems: When filling with fresh water, hold float in raised position by hand until it is able to float independently. Report start-up to relevant authority. Always follow accident prevention regulations during installation!

INSTALLATION DRAWING

Installation drawing series G, separator from steel
walkable areas - loading capacity A 15

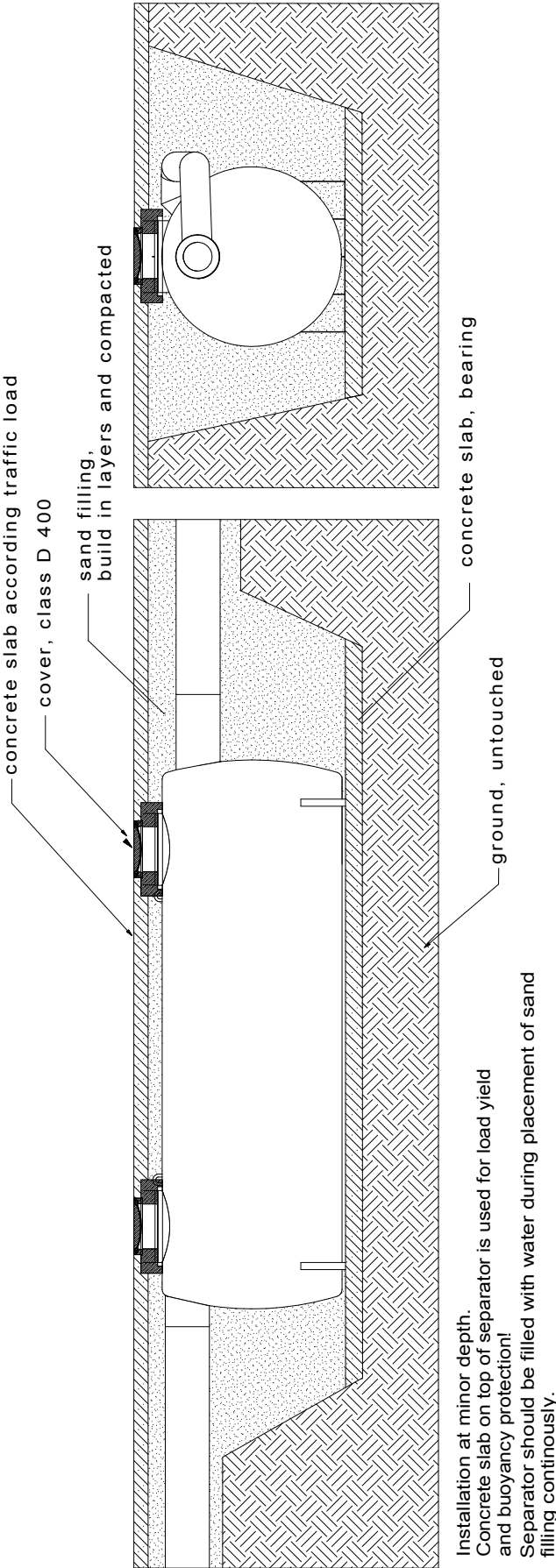


hauraton Einbauzeichnung G Kl. A
geringe Tiefe englisch

| | | | |
|-----------------|----------|--------------|---------------------------|
| Erstellt: Coe | 070725 | AQUAFIX | Hauraton GmbH & Co KG |
| gezeichnet: Coe | 070725 | gr.05.07 | Werkestrasse 13 |
| CoB | 08.12.08 | Textänderung | D-76437 Haslach |
| CoC | | | tel: +49 7222 958-0 |
| | | | fax: +49 7222 958-100 |
| | | | www.hauraton.com |
| | | | mail: export@hauraton.com |

INSTALLATION DRAWING

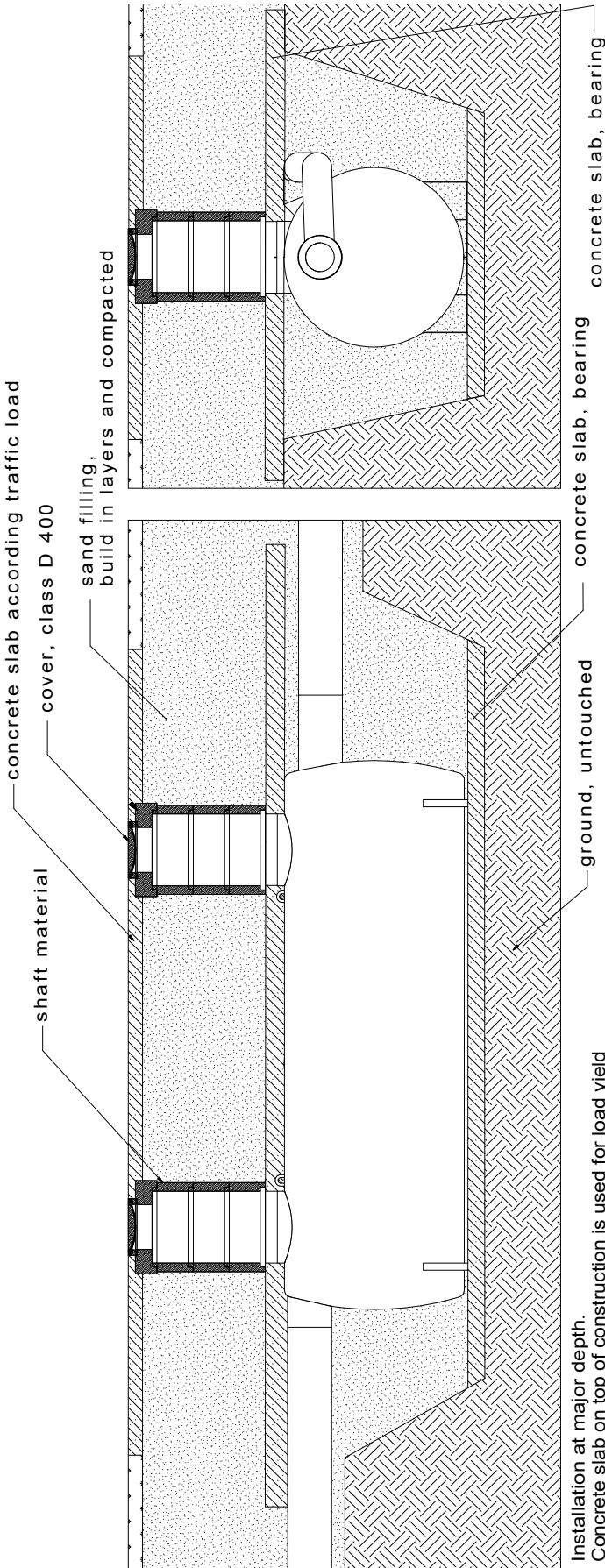
Installation drawing series G, separator from steel
trafficable areas - loading capacity D 400



| | | | |
|-----------------|--------|---|--|
| hauraton | | Einbauzeichnung G Kl. D geringe Tiefe englisch | |
| Erstellt: Coe | 070725 | AQUAFIX | |
| gezeichnet: Coe | 070725 | Anleitung | |
| CoE | 081208 | größer | |
| CoE | | Textänderungen | |
| | | Hauraton GmbH & Co KG | |
| | | Weinstraße 13 | |
| | | 40709 Hauraton | |
| | | Tel +49 7222 958-0 | |
| | | Fax +49 7222 958-100 | |
| | | www.hauraton.com | |
| | | mail: export@hauraton.com | |

INSTALLATION DRAWING

Installation drawing series G, separator from steel
trafficable areas - loading capacity D 400



Installation at major depth.
Concrete slab on top of construction is used for load yield
and slab on top of separator is used for buoyancy protection!
Separator should be filled with water during placement of sand
filling continuously.

| | | | |
|-----------------|--------|---|---------------------------|
| hauraton | | Einbauzeichnung G Kl. D große Tiefe englisch | |
| Erstellt: Coe | 070725 | AQUAFIX | Hauraton GmbH & Co KG |
| gezeichnet von | 070725 | grübler | Werkstrasse 13 |
| Co | 070725 | grübler | D-76437 Hasbachtal |
| Co | 081208 | Textänderungen | tel. +49 7222 958 0 |
| | | | fax +49 7222 958 100 |
| | | | www.hauraton.com |
| | | | mail: export@hauraton.com |

INSTALLATION INSTRUCTIONS

| INSTALLATION INSTRUCTIONS | | | | |
|---------------------------|------------------|-------------------|--------------------|--------------------|
| AQUAFIX® „PP“ | AQUAFIX® „10 PE“ | AQUAFIX® CONCRETE | AQUAFIX® STEEL „K“ | AQUAFIX® STEEL „G“ |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „G“ MADE OF STEEL

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES „G“ MADE OF STEEL

□ Before start-up

1. Clean entire system and remove residual mortar, soil etc.
2. Fill sludge trap and separator with fresh water.*

Attention! Always hold float of seal in hand when filling until it can float by itself. Please ensure that water level is same in all chambers of tank, and fill in sequence!

3. Re-check joints of system for leaks.

* Sludge trap in this type of system must be filled with fresh water.

□ Operation

As well as following the maintenance guide, the entire system must comply with the following regulations

- DIN 1986 (estate drainage systems)
- EN 858 (light liquid separators)
- Local drainage regulations and other instructions

Only sewage that does not have a detrimental effect on the intended operation of the separator must be led into the system. Emulsions and solvents (cold cleaners, drilling and cutting oil, water-soluble hydrocarbons etc.) must not be allowed to enter the separator. Dispose of these materials together with the special waste. Rainwater from surfaces for which the separator was not intended and domestic sewage must not be led into the separator. With coalescence separators: Do not remove coalescence insert during operation!

The use of alarm systems with big steel AQUAFIX® SKG, SKBP, SKGBP2 and SKGBPL separators is strongly recommended because of the large quantity of light liquid that is stored!

□ Disposal

Separator systems must be drained at least every six months, but should not be allowed to fill to more than 85% of their storage capacity. Cleaning must occur more often if the storage capacity of the separator or sludge trap is exceeded. Operation must not be interrupted. All separated material must be drained, cleaned and taken away for disposal by an approved disposal company.

Please empty the separator and the sludge trap of this type of system at the same time if possible.

First extract the oil layer from the system and then the layer of water beneath it, into separate tanks if possible. Clean float and seal every time the system is emptied and check operation thereof.

With coalescence separators: If the coalescence material is soiled, remove coalescence material, clean above sludge trap, give damaged coalescence material to disposal company and replace with new material. Replace coalescence material. The sludge trap has a coalescence chamber access flap for removing the coalescence material. Re-fill system with fresh water whenever it is emptied and cleaned.

Attention! Always hold float of seal by hand until it is floating when filling the system. Use mobile ladder when entering the system. Extract air/vapour mixture beforehand. Take the relevant safety precautions! Follow the accident prevention regulations!

In the event of torrential rainfall, a sudden influx into the separator can occur with large separators. When entering the system, prevent influx and pay attention to personal safety.



□ Maintenance

The separator must be serviced at least every 6 months. The system must be emptied to do this. Carefully check that all system components are in good working order and undamaged. Then fill separator and sludge trap with water*, hold seal open by hand or insert later.

* Sludge trap in this type of system must be filled with fresh water.

It is extremely important to follow the accident prevention regulations! Keep these instructions in a clearly visible location in close proximity to the separator!

Coalescence insert description and maintenance guide

1. Description: The coalescence insert consists of lamellar material that is in the coalescence chamber.
2. Maintenance: The coalescence material must be checked monthly for soiling. If the material is difficult to rinse back, remove material using the clamp in the coalescence chamber that is accessible from the sludge trap and clean. Replace material with new material if necessary. Then close flap again.

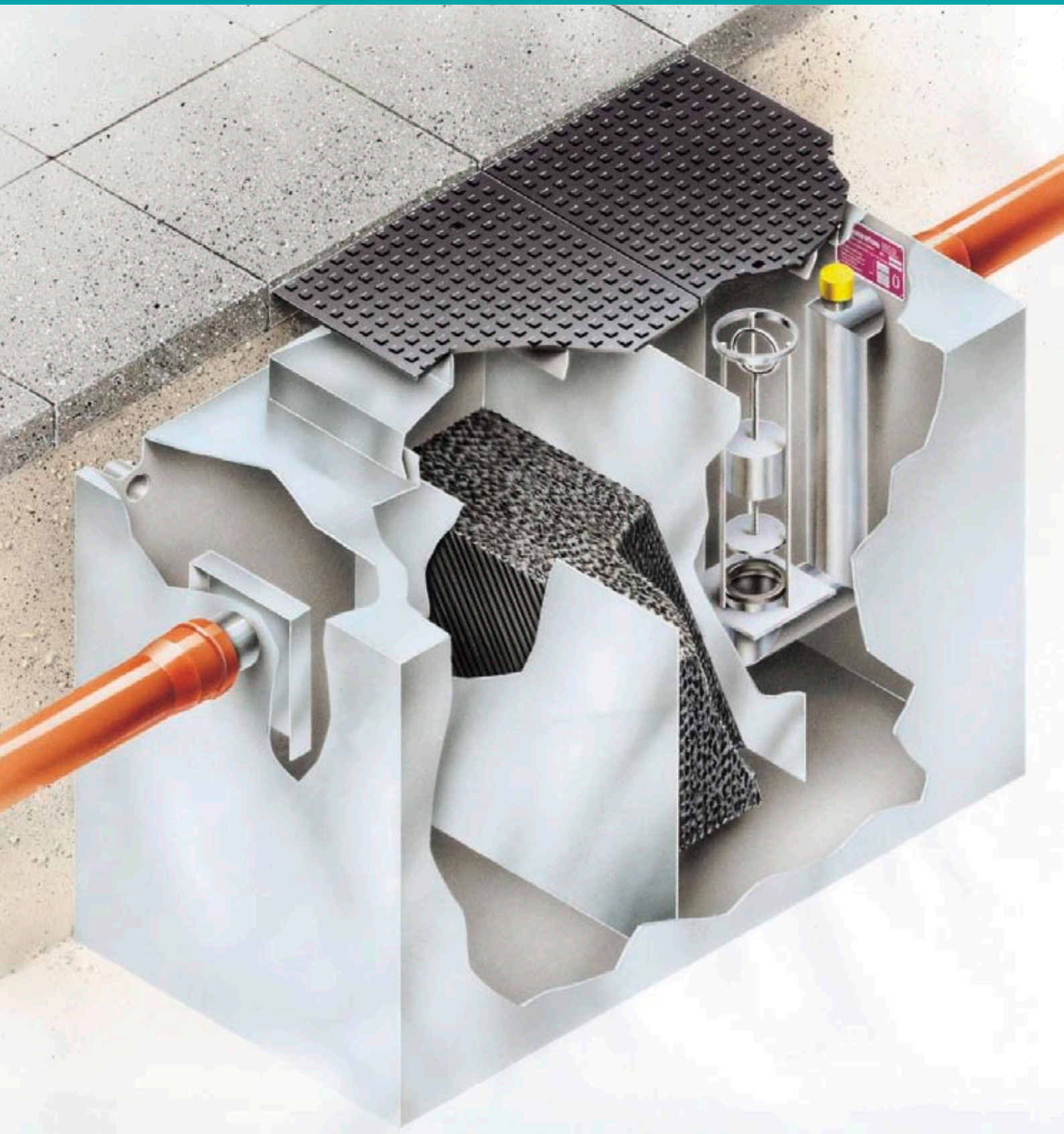
Do not remove coalescence material during operation!

Seal description and maintenance

1. Description: The separator outlet is equipped with a seal. When the float drops into the light liquid layer a sealing washer is pressed against the bottom end of the outlet. When filling the system with fresh water, hold float in an elevated position by hand until it can float by itself.
2. Maintenance: **Important!** The seal must be held in an elevated position by hand by pulling the float until the maximum water level is reached. Do not release float until it is floating in water, therefore releasing the seal!

AQUAFIX® SEPARATORS

SERIES „k“ SMALL MADE OF STEEL
STRONG SOLUTIONS FOR SMALL FLOWS.





AT A GLANCE:

- ✓ At least solid 5 mm steel plates
- ✓ Separator tank, continuously chargeable up to class D 400
- ✓ Galvanised inside and outside or coated with several layers of epoxy resin on pretreated surface

AQUAFIX® SEPARATORS

SERIES „k“ SMALL MADE OF STEEL
STRONG SOLUTIONS FOR SMALL FLOWS.

FEATURES

- At least solid 5 mm steel plate
- Entry and maintenance openings
Size 1: 500 x 630 mm or 500 x 500 mm;
Size 2: 1000 x 630 mm or 1000 x 500 mm
(Measures depending on the place of delivery/country)
- Class B 125 or C 250 extension covers with adjustable height (Loading class depending on the place of delivery/country)
- Stop rings to handle the systems
- Separator tank, continuously chargeable up to class D 400
- Galvanised inside and outside or coated with several layers of epoxy resin on pretreated surface (Coating depending on the place of delivery/country)
- Compact design
- Complies with standards EN 858 and EN 1825
- Inlets and outlets made from 5 mm steel plate, same diameter as KG pipes

For light liquid separation systems:

- Easy to remove as required by the norm
- Easy to clean lamellar coalescence material
- Maintenance-free coalescence block
- Sampling system can be integrated

EXTENSIONS

All models are equipped with 500 x 630 mm and 1000 x 630 mm, or with 500 x 500 mm and 1000 x 500 mm covers. They are 200 mm or 100 mm high and are continuously adjustable by up to 40 mm. They have been designed for class B 125 or C 250. Several units can be stacked on top of each other.

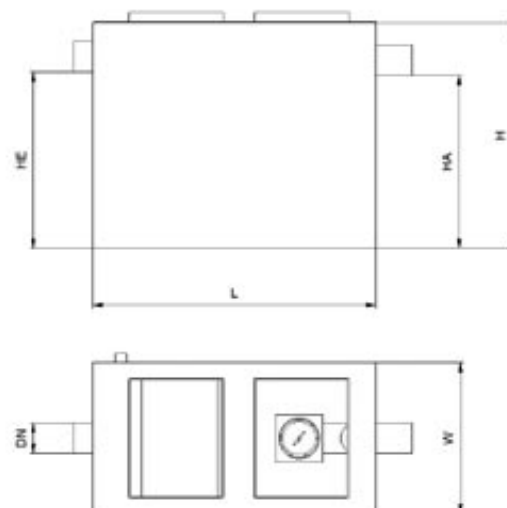
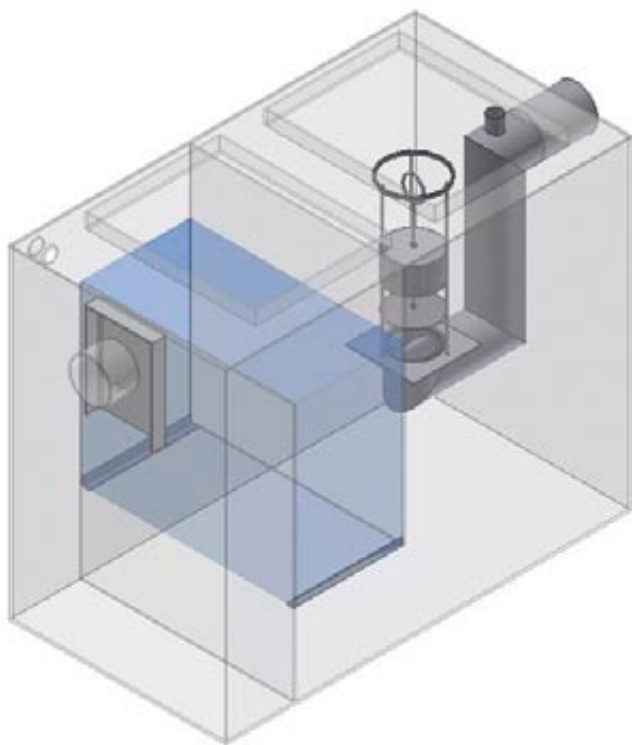
Extension cover 500 x 630 mm (Size 1), Weight: 51 kg total, Height: 200 mm, Class C 250, Article no. 80011,
Extension cover 1000 x 630 mm (Size 2), Weight: 84 kg total, Height: 200 mm, Class C 250, **Item no. 80012 P**

Extension cover 500 x 500 mm (Size 1), Weight: 45 kg total, Height: 100 mm, Class B 125, Article no. 80021,
Extension cover 1000 x 500 mm (Size 2), Weight: 80 kg total, Height: 100 mm, Class B 125, **Item no. 80022 H**



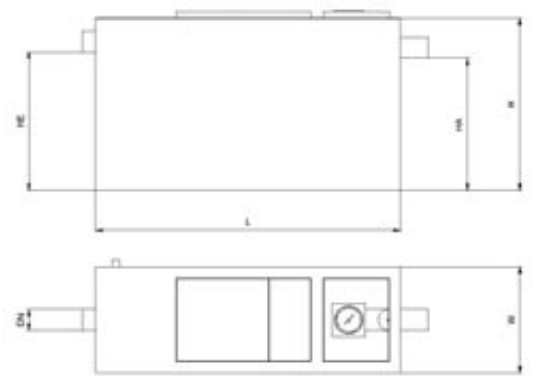
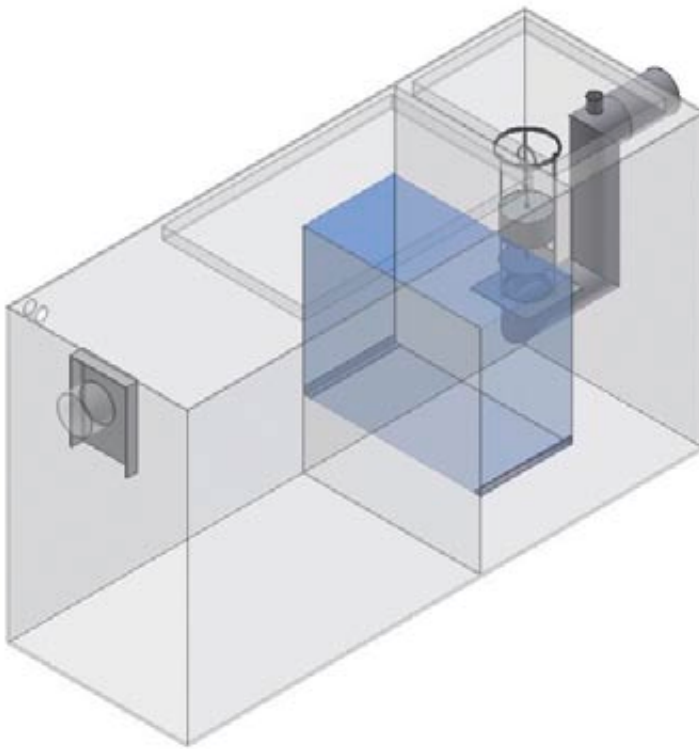
AQUAFIX® Separators from steel - Series k

AQUAFIX® - Kk Coalescence separator



| | Length mm | Width mm | Height mm | max. ϕ Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight mm | storage capa- city l | Item No. |
|---------|--------------|-------------|--------------|----------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| Kk 01,5 | 1000 | 600 | 800 | 1 | - | 87 | 261 | 100 | 600 | 580 | 1 | 1 | 265,0 | 120 | 87501 |
| Kk 03 | 1000 | 600 | 1000 | 3 | - | 117 | 351 | 100 | 800 | 780 | 1 | 1 | 339,0 | 120 | 87503 |
| Kk 04 | 1000 | 800 | 1000 | 4 | - | 156 | 468 | 100 | 800 | 780 | 1 | 1 | 419,0 | 160 | 87504 |
| Kk 06 | 1200 | 800 | 1200 | 6 | - | 184 | 699 | 150 | 940 | 920 | 2 | - | 554,0 | 192 | 87506 |
| Kk 08 | 1500 | 800 | 1200 | 8 | - | 184 | 920 | 150 | 940 | 920 | 2 | - | 664,0 | 240 | 87508 |
| Kk 15 | 1500 | 1000 | 1500 | 15 | - | 295 | 1475 | 200 | 1200 | 1180 | 2 | - | 1010,0 | 300 | 87515 |
| Kk 10 | 1500 | 800 | 1200 | 10 | - | 184 | 920 | 150 | 940 | 920 | 2 | - | 664,0 | 240 | 87510 |
| Kk 20 | 1800 | 1000 | 1500 | 20 | - | 295 | 1829 | 200 | 1200 | 1180 | 2 | - | 1029,0 | 360 | 87520 |

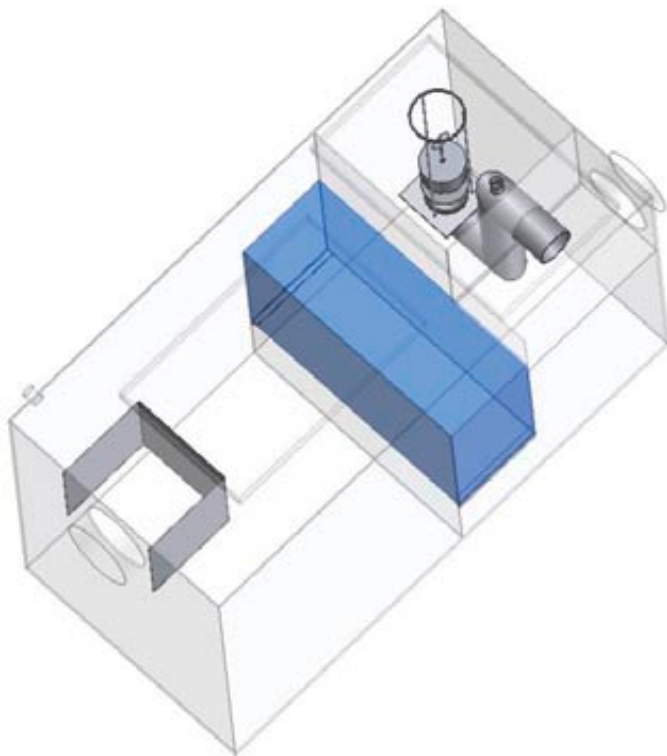
AQUAFIX® - SKk Coalescence separator with sludge trap



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight mm | storage capa- city l | Item No. |
|---------------|--------------|-------------|--------------|------------------|-----------------|-----------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| SKk 01,5/0150 | 1200 | 600 | 800 | 1 | - | 157 | 261 | 100 | 600 | 560 | 1 | 1 | 291,0 | 90 | 87601 |
| SKk 03/0300 | 1400 | 600 | 1000 | 3 | - | 328 | 328 | 100 | 800 | 750 | 2 | - | 363,0 | 84 | 87603 |
| SKk 04/0400 | 1400 | 800 | 1000 | 4 | - | 406 | 468 | 100 | 800 | 750 | - | 1 | 427,0 | 120 | 87604 |
| SKk 06/0600 | 1800 | 800 | 1200 | 6 | - | 626 | 699 | 150 | 950 | 900 | - | 1 | 623,0 | 152 | 87606 |
| SKk 08/0800 | 2000 | 800 | 1200 | 8 | - | 810 | 662 | 150 | 950 | 900 | - | 1 | 699,0 | 144 | 87608 |
| SKk 10/1000 | 2100 | 800 | 1300 | 10 | - | 1061 | 734 | 150 | 1050 | 1000 | - | 1 | 809,0 | 144 | 87610 |
| SKk 15/1500 | 2300 | 1100 | 1600 | 15 | - | 1690 | 1408 | 200 | 1300 | 1250 | - | 3 | 1275,0 | 220 | 87615 |
| SKk 20/2000 | 2300 | 1100 | 1600 | 15 | - | 2253 | 1830 | 200 | 1300 | 1250 | - | 3 | 1371,0 | 286 | 87620 |

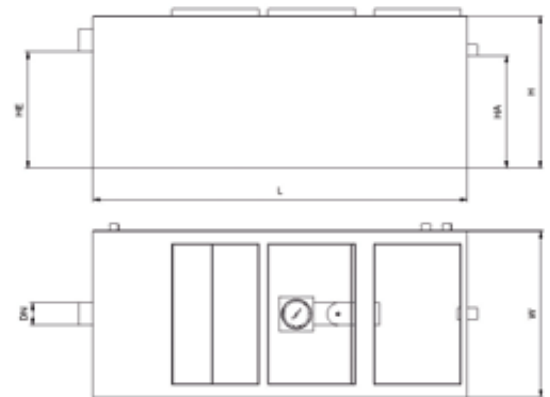
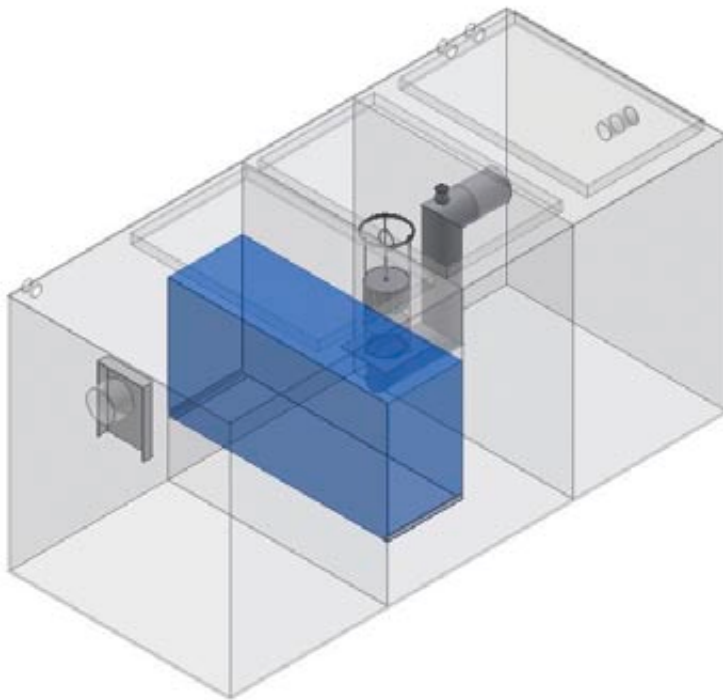
AQUAFIX® Separators from steel - Series k

AQUAFIX® - SKBPk Coalescence separator with sludge trap and bypass



| | Length mm | Width mm | Height mm | max. ϕ Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight mm | storage capa- city l | Item No. |
|---------------|--------------|-------------|--------------|----------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| SKBPk 03/0300 | 1200 | 800 | 1200 | 15 | - | 384 | 426 | 150 | 980 | 760 | 2 | - | 498,0 | 112 | 87803 |
| SKBPk 04/0400 | 1500 | 800 | 1200 | 20 | - | 473 | 483 | 200 | 930 | 710 | 2 | - | 563,0 | 136 | 87804 |
| SKBPk 06/0600 | 1900 | 1000 | 1300 | 30 | - | 859 | 851 | 200 | 1030 | 810 | - | 2 | 804,0 | 210 | 87806 |
| SKBPk 08/0800 | 2300 | 1100 | 1200 | 40 | - | 891 | 872 | 300 | 830 | 610 | - | 2 | 916,0 | 286 | 87808 |
| SKBPk 10/1000 | 2300 | 1100 | 1400 | 50 | - | 1333 | 980 | 300 | 1030 | 810 | - | 2 | 1073,0 | 242 | 87810 |
| SKBPk 15/1500 | 2500 | 1200 | 1800 | 75 | - | 1886 | 1732 | 400 | 1330 | 1110 | - | 2 | 1560,0 | 312 | 87815 |
| SKBPk 20/2000 | 2900 | 1200 | 1800 | 100 | - | 2201 | 1998 | 400 | 1330 | 1110 | - | 3 | 1657,0 | 360 | 87820 |

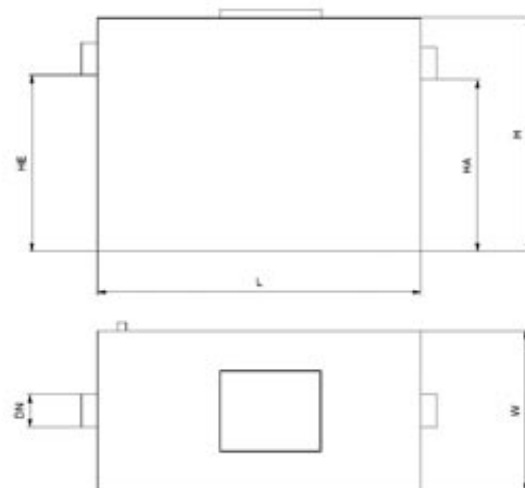
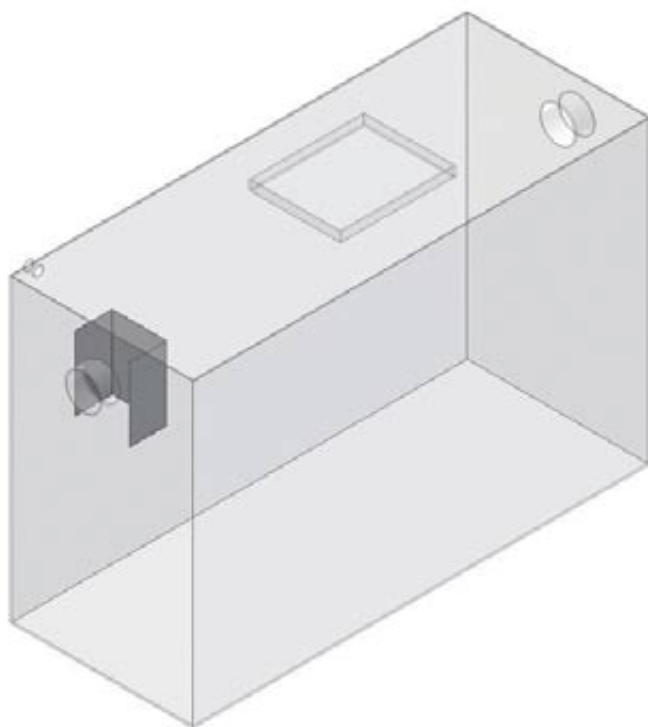
AQUAFIX® - SKmPk Coalescence separator with sludge trap and pump chamber



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capacity l | seperator capacity l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight mm | storage capa- city l | Item No. |
|-----------------|--------------|-------------|--------------|------------------|-----------------|------------------------------|----------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| SKmPk 01,5/0150 | 2200 | 600 | 800 | 1 | - | 157 | 296 | 100 | 600 | 570 | 3 | - | 396,0 | 102 | 87701 |
| SKmPk 03/0300 | 1800 | 800 | 1000 | 3 | - | 312 | 437 | 100 | 800 | 770 | 3 | - | 492,0 | 112 | 87703 |
| SKmPk 04/0400 | 2400 | 800 | 1000 | 4 | - | 406 | 562 | 100 | 800 | 770 | 3 | - | 574,0 | 144 | 87704 |
| SKmPk 06/0600 | 2200 | 1100 | 1200 | 6 | - | 607 | 1012 | 150 | 950 | 920 | - | 2 | 950,0 | 220 | 87706 |
| SKmPk 08/0800 | 2700 | 1200 | 1100 | 8 | - | 836 | 984 | 150 | 850 | 820 | - | 3 | 1111,0 | 240 | 87708 |
| SKmPk 10/1000 | 2700 | 1200 | 1300 | 10 | - | 1040 | 1224 | 150 | 1050 | 1020 | - | 3 | 1220,0 | 240 | 87710 |
| SKmPk 15/1500 | 3100 | 1200 | 1600 | 15 | - | 1536 | 1690 | 200 | 1300 | 1270 | - | 3 | 1633,0 | 264 | 87715 |
| SKmPk 20/2000 | 3100 | 1400 | 1600 | 20 | - | 2253 | 1971 | 200 | 1300 | 1270 | - | 3 | 1766,0 | 308 | 87720 |

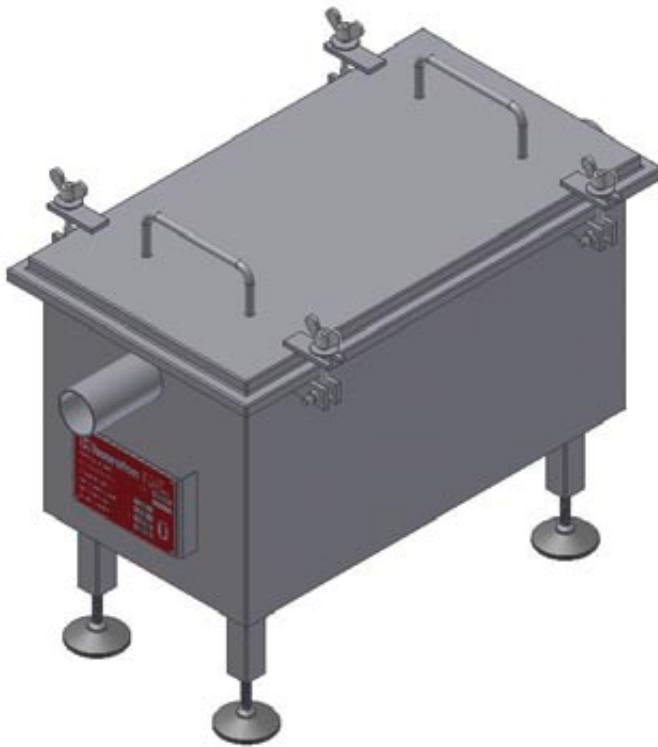
AQUAFIX® Separators from steel - Series k

AQUAFIX® - Sk Sludge trap



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight kg | storage capa- city l | Item No. |
|--------|--------------|-------------|--------------|--------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| Sk 100 | 800 | 500 | 600 | - | - | 100 | - | 100 | 350 | 320 | 1 | - | 94,0 | - | 87000 |
| Sk 150 | 800 | 600 | 600 | - | - | 150 | - | 100 | 350 | 320 | 1 | - | 104,0 | - | 87001 |
| Sk 200 | 800 | 600 | 700 | - | - | 200 | - | 100 | 450 | 420 | 1 | - | 117,0 | - | 87002 |

AQUAFIX® - Grease separator with sludge trap - freestanding overground installation



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole type 1 | Man- hole type 2 | Weight kg | storage capa- city l | Item No. |
|-------|--------------|-------------|--------------|--------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|------------------------|------------------------|--------------|-------------------------------|-------------|
| GB 1 | 760 | 415 | 560 | 1 | - | 11 | 22 | 50 | 325 | 290 | - | - | 27,0 | 11 | 77050 |
| NS 01 | 950 | 450 | 642 | 1 | - | 100 | 96 | 70 | 500 | 470 | - | - | 70,0 | 37 | 77100 |
| NS 02 | 1650 | 640 | 1000 | 2 | - | 200 | - | 100 | 770 | 700 | - | - | 225,0 | 172 | 77200 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „k“

AQUAFIX® CONCRETE

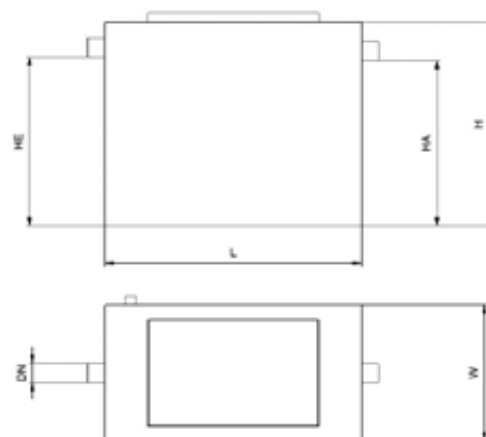
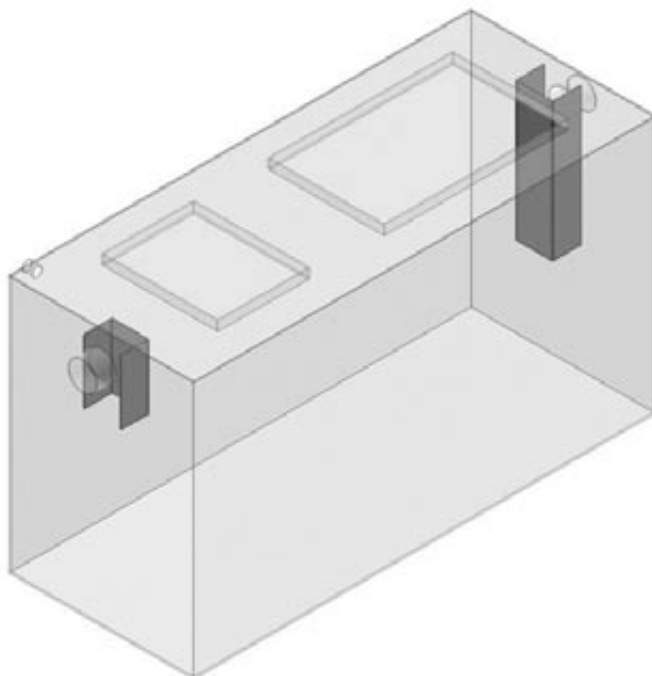
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

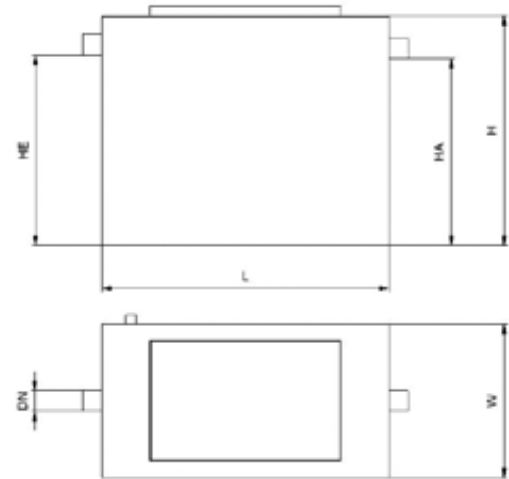
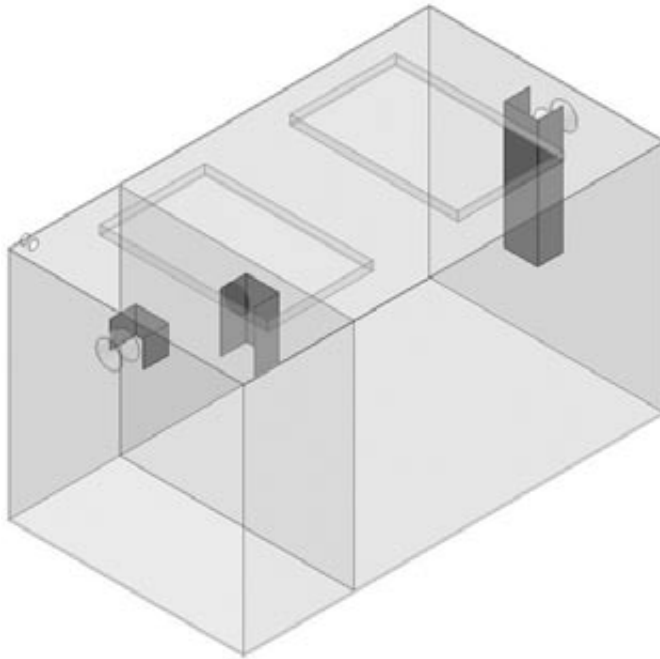
AQUAFIX® Separators from steel - Series k

AQUAFIX® - Fk Grease separator



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole 1 | Man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-------------------|-------------------|--------------|-------------------------------|-------------|
| Fk 01 | 1000 | 500 | 1000 | 1 | - | - | 390 | 100 | 800 | 780 | 1 | - | 171,0 | 100 | 87101 |
| Fk 02 | 1200 | 800 | 1000 | 2 | - | - | 749 | 100 | 800 | 780 | 1 | - | 242,0 | 192 | 87102 |
| Fk 04 | 1500 | 800 | 1200 | 4 | - | - | 1176 | 100 | 1000 | 980 | - | 1 | 324,0 | 240 | 87104 |
| Fk 07 | 1800 | 1000 | 1200 | 7 | - | - | 1674 | 150 | 950 | 930 | - | 1 | 416,0 | 360 | 87107 |
| Fk 10 | 2500 | 1000 | 1400 | 10 | - | - | 2825 | 150 | 1150 | 1130 | 1 | 1 | 597,0 | 500 | 87110 |
| Fk 15 | 3200 | 1200 | 1400 | 15 | - | - | 4147 | 200 | 1100 | 1080 | - | 2 | 609,0 | 768 | 87115 |
| Fk 20 | 3200 | 1600 | 1500 | 20 | - | - | 6042 | 200 | 1200 | 1180 | - | 2 | 953,0 | 1024 | 87120 |
| Fk 25 | 4000 | 1600 | 1500 | 25 | - | - | 7552 | 200 | 1200 | 1180 | - | 2 | 1133,0 | 1280 | 87125 |

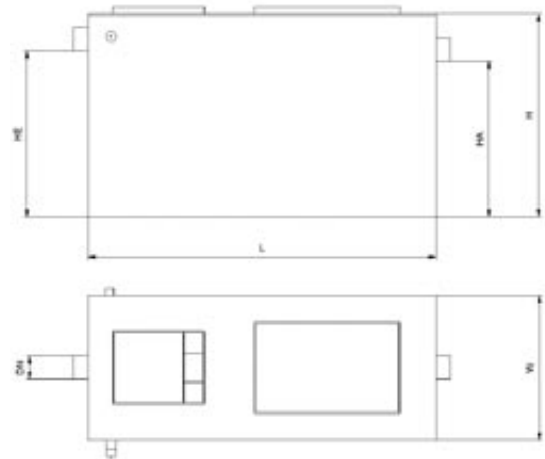
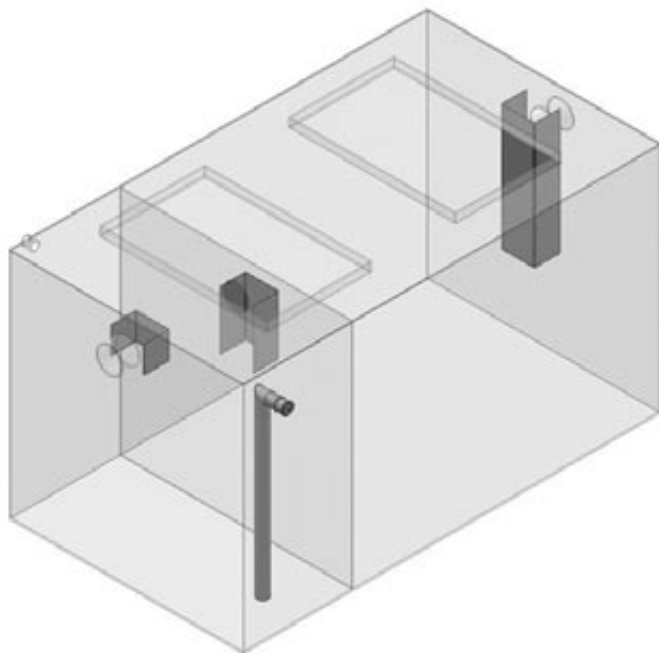
AQUAFIX® - SFk Grease separator with sludge trap



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole 1 | Man- hole 2 | Weight kg | storage capa- city l | Item No. |
|----------------|--------------|-------------|--------------|------------------|-----------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-------------------|-------------------|--------------|-------------------------------|-------------|
| SFk 01/0100 | 1000 | 500 | 1000 | 1 | - | 113 | 256 | 100 | 800 | 730 | 1 | - | 194,0 | 70 | 87201 |
| SFk 02/0200 | 1200 | 800 | 1000 | 2 | - | 240 | 467 | 100 | 800 | 730 | - | 1 | 277,0 | 128 | 87202 |
| SFk 04/0400 | 1500 | 1000 | 1200 | 4 | - | 475 | 930 | 100 | 1000 | 930 | - | 1 | 418,0 | 200 | 87204 |
| SFk 07/0700 | 2400 | 1000 | 1400 | 7 | - | 715 | 1890 | 150 | 1150 | 1080 | 1 | 1 | 644,0 | 350 | 87207 |
| SFk 10/1000 | 2500 | 1400 | 1400 | 10 | - | 1001 | 2797 | 150 | 1150 | 1080 | - | 2 | 793,0 | 518 | 87210 |
| SFk 15/1500 | 3200 | 1600 | 1500 | 15 | - | 1564 | 4249 | 200 | 1100 | 1030 | - | 2 | 1063,0 | 752 | 87215 |
| SFk 20/2000 | 4000 | 1800 | 1500 | 20 | - | 2277 | 5899 | 200 | 1200 | 1130 | - | 2 | 1325,0 | 1044 | 87220 |
| SFk 25/2500 | 5000 | 1800 | 1500 | 25 | - | 2588 | 7628 | 200 | 1200 | 1130 | - | 2 | 1567,0 | 1350 | 87225 |

AQUAFIX® Separators from steel - Series k

AQUAFIX® - SFmEk Grease separator with sludge trap and disposal pipe



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | Man- hole 1 | Man- hole 2 | Weight kg | storage capa- city l | Item No. |
|------------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-------------------|-------------------|--------------|-------------------------------|-------------|
| SFmEk 01/0100 | 1000 | 500 | 1000 | 1 | - | 113 | 256 | 100 | 800 | 730 | 1 | - | 196,0 | 70 | 87301 |
| SFmEk 02/0200 | 1200 | 800 | 1000 | 2 | - | 240 | 467 | 100 | 800 | 730 | - | 1 | 279,0 | 128 | 87302 |
| SFmEk 04/0400 | 1500 | 1000 | 1200 | 4 | - | 475 | 930 | 100 | 1000 | 930 | - | 1 | 420,0 | 200 | 87304 |
| SFmEk 07/0700 | 2400 | 1000 | 1400 | 7 | - | 715 | 1890 | 150 | 1150 | 1080 | 1 | 1 | 646,0 | 350 | 87307 |
| SFmEk 10/1000 | 2500 | 1400 | 1400 | 10 | - | 1001 | 2797 | 150 | 1150 | 1080 | 1 | 1 | 795,0 | 518 | 87310 |
| SFmEk 15/1500 | 3200 | 1600 | 1500 | 15 | - | 1564 | 4249 | 200 | 1200 | 1130 | - | 2 | 1065,0 | 752 | 87315 |
| SFmEk 20/2000 | 4000 | 1800 | 1500 | 20 | - | 2277 | 5899 | 200 | 1200 | 1130 | - | 2 | 1330,0 | 1044 | 87320 |
| SFmEk 25/2500 | 5000 | 1800 | 1500 | 25 | - | 2588 | 7628 | 200 | 1200 | 1130 | - | 2 | 1572,0 | 1350 | 87325 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „k“

AQUAFIX® CONCRETE

AQUAFIX® „10 PE“

AQUAFIX® „PP“

**INSTALLATION
INSTRUCTIONS**

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „k“ MADE OF STEEL

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES „k“ MADE OF STEEL

1. Please check completeness of delivery and immediately note any parts that are missing or were damaged in transit on the delivery note. Complaints received at a later date will not be accepted. Otherwise our general business terms and conditions apply.
2. The separator should be installed outside the washing areas where it will not overflow or back up. It must also be as close as possible to the source of the sewage, in the open but protected from the frost and easy to access by cleaning vehicles.
3. The excavation base must be level. If no suitable soil is available a 10 mm thick compressed bed of sand or small pebbles can be used. A foundation plate would be even better. If the foundation soil is non-supporting, make a statically dimensioned foundation plate.
4. Take thickness of base and correction layer into consideration in height calculations. Pay attention to height information in installation drawing.
5. Tank must be installed in a level position.
6. The material must be level as it flows through the separator. The inlet and outlet must be correctly aligned.
7. Install system with top edge higher than last inlet point.
8. Attach buoyancy protector if necessary and anchor it in the foundation plate.
9. Pipelines must be connected without leaks.
10. After correctly aligning all tanks, tops, covers and connecting pipes, clean the system!
11. Before filling up the system, fill all tanks with fresh water and check for leaks. The leak test is mandatory!
12. Do not modify tank or pipes again after filling with sand and compressing. Please refer to provided installation drawing.
13. Attach concrete plate to provide buoyancy protection if necessary.
14. With liquid separation systems: When filling with fresh water, hold float in raised position by hand until it is able to float independently. Report start-up to relevant authority.

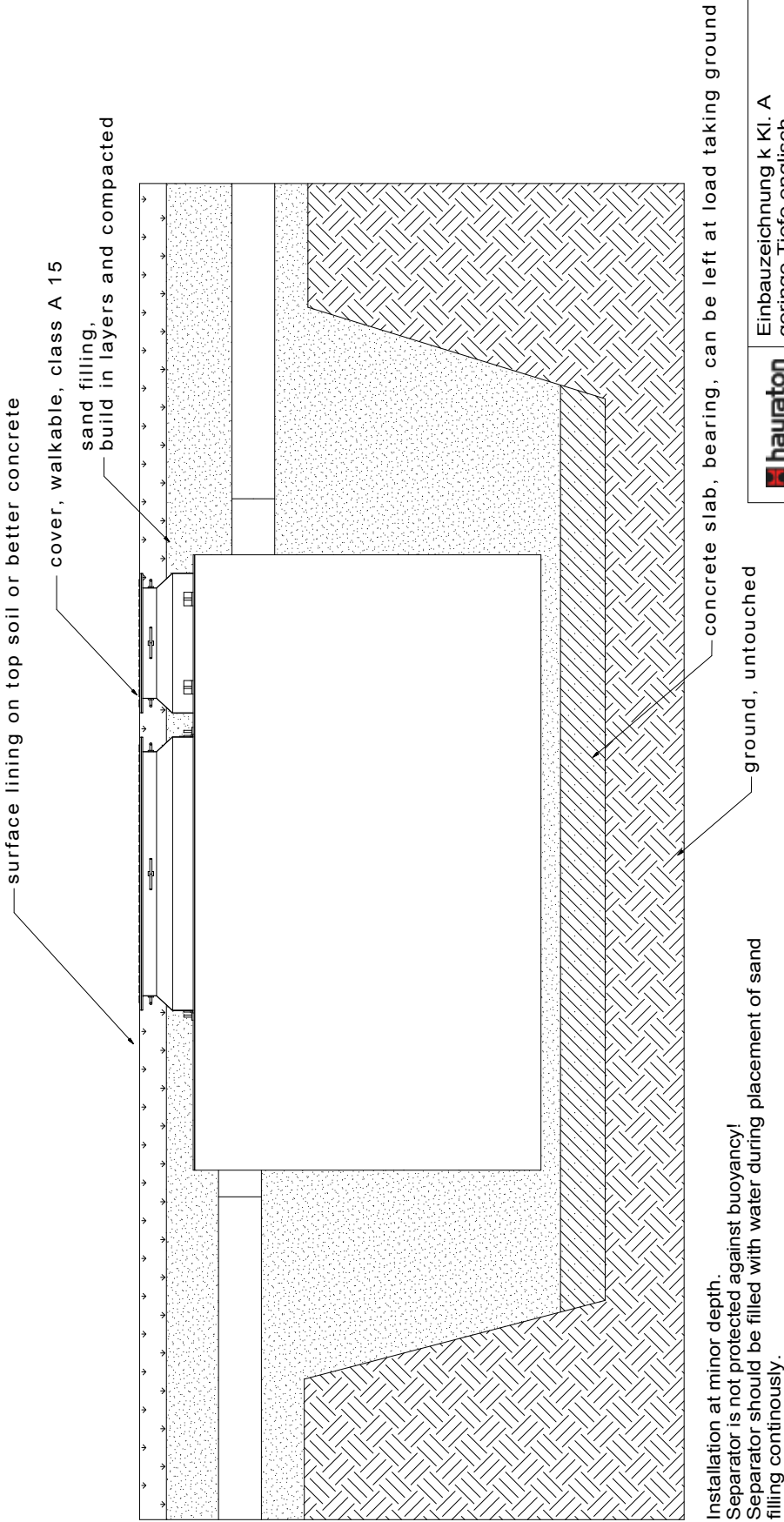
Always follow accident prevention regulations during installation!

The inlet and outlet must not be the wrong way around!
Use the correct gradient! Recommended total gradient of system must be 2 - 5%!

INSTALLATION DRAWING

Installation drawing series k, small separator from steel

walkable areas - loading capacity A 15



Installation at minor depth.
Separator is not protected against buoyancy!
Separator should be filled with water during placement of sand filling continuously.

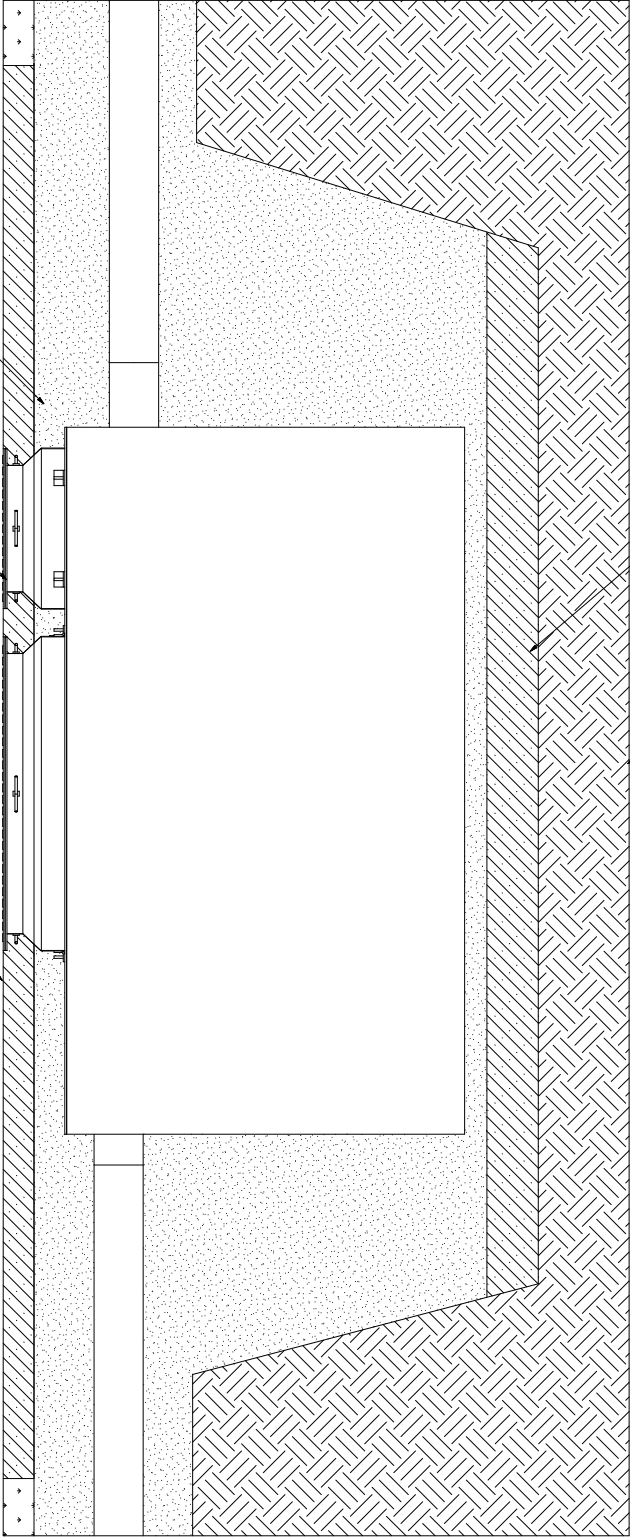
| | | | |
|-----------------|--------|---|--|
| hauraton | | Einbauzeichnung k Kl. A geringe Tiefe englisch | |
| Erstellt: Coe | 070725 | AQUAFIX | |
| gezeichnet von: | 070725 | Anleitung | |
| Coe | 081208 | Vergrößerungen | |
| Coe | | Textänderungen | |
| | | Hauraton GmbH & Co KG | |
| | | Werktstraße 13 | |
| | | D-76437 Haslach | |
| | | Tel. +49 7222 958-0 | |
| | | Fax +49 7222 958-100 | |
| | | www.hauraton.com | |
| | | mail: export@hauraton.com | |

INSTALLATION DRAWING

Installation drawing series k, small separator from steel

trafficable areas - loading capacity D 400

concrete slab, bearing, reinforced, buoyancy protection
cover, class D 400
sand filling,
build in layers and compacted



Installation at minor or medium depth.
Separator is protected against buoyancy by concrete slab on top.
Separator should be filled with water during placement of sand filling continuously.



Einbauzeichnung k Kl. D
geringe bis mittlere Tiefe englisch

070725

AQUAFIX

Erstellt: Coe

gezeichnet durch: Coe

gezeichnet am: 07.07.25

gezeichnet durch: Coe

gezeichnet am: 08.12.08

gezeichnet durch: Coe

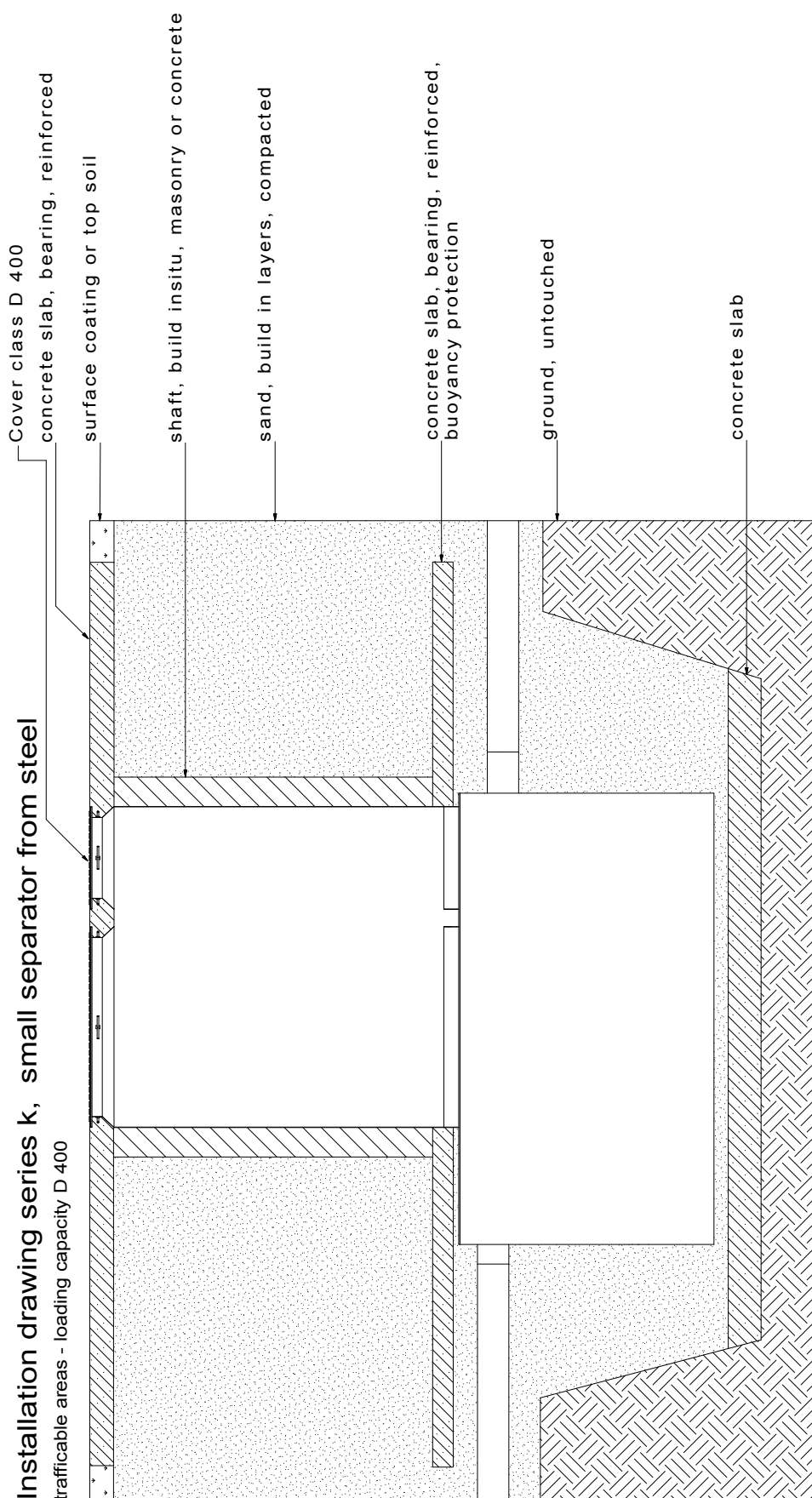
070725

AQUAFIX

Einbauzeichnung k Kl. D
geringe bis mittlere Tiefe englisch

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Weinstraße 13
40699 Düsseldorf
Tel +49 7222 958-0
Fax +49 7222 958-100
www.hauraton.com
mail: export@hauraton.com

INSTALLATION DRAWING



Installation at major depth.
Separator is protected against buoyancy by concrete slab on top of separator.
Separator should be filled with water during placement of sand filling continuously.

Einbauzeichnung k Kl. D
große Tiefe englisch

| | # | = | Ist im WSPORTSUCKER-Katalogeintrag "Raschauer Hauraum" | Hauraum GmbH & Co KG Werktstrasse 13 D-76437 Rastatt Tel.: +49 7222 958 - 0 Fax: +49 7222 958 - 100 www.hauraum.com mail: export@hauraum.com | |
|------------|-----|-------------------|--|--|------------------------|
| Einstellf. | Coe | gewinnf. nach Coe | gewinnf. am Coe | Anzahlung vergrößern | AQUAFIX Textilendungen |
| | | | 08 12 25 | | |
| | | | 08 12 08 | | |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „k“ MADE OF STEEL

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES „k“ MADE OF STEEL

□ Before start-up

1. Clean entire system and remove residual mortar, soil etc.
2. Fill sludge trap and separator with fresh water.*

Attention! Always hold float of seal in hand when filling until it can float by itself. Please ensure that water level is same in all chambers of tank, and fill in sequence!

3. Re-check joints of system for leaks.

* Sludge trap in this type of system must be filled with fresh water.

□ Operation

As well as following the maintenance guide, the entire system must comply with the following regulations

- DIN 1986 (estate drainage systems)
 - EN 858 (light liquid separators)
 - Local drainage regulations and other instructions
- Only sewage that does not have a detrimental effect on the intended operation of the separator must be led into the system. Emulsions and solvents (cold cleaners, drilling and cutting oil, water-soluble hydrocarbons etc.) must not be allowed to enter the separator. Dispose of these materials together with the special waste. Rainwater from surfaces for which the separator was not intended and domestic sewage must not be led into the separator. With coalescence separators: Do not remove coalescence insert during operation!



Seal description and maintenance

1. Description: The separator outlet is equipped with a seal. When the float drops into the light liquid layer a sealing washer is pressed against the bottom end of the outlet. When filling the system with fresh water, hold float in an elevated position by hand until it can float by itself.
2. Maintenance: **Important!** The seal must be held in an elevated position by hand by pulling the float until the maximum water level is reached. Do not release float until it is floating in water, therefore releasing the seal!

Keep these instructions in close proximity to the separator!

□ Disposal

Separator must be drained at least every six months, but should not be allowed to fill to more than 85% of its storage capacity. Cleaning must occur more often if the storage capacity of the separator or sludge trap is exceeded. Operation must not be interrupted. All separated material must be drained, cleaned and taken away for disposal by an approved disposal company.

Please empty the separator and the sludge trap of this type of system at the same time if possible.

First extract the oil layer from the system and then the layer of water beneath it, into separate tanks if possible. Clean float and seal every time the system is emptied and check operation thereof.

With coalescence separators: If the coalescence material is soiled, remove coalescence material, clean above sludge trap, give damaged coalescence material to disposal company and replace with new material. Replace coalescence material. Re-fill system with fresh water whenever it is emptied and cleaned.

Attention! Always hold float of seal by hand until it is floating when filling the system. Use mobile ladder when entering the system. Extract air/vapour mixture beforehand. Take the relevant safety precautions! Follow the accident prevention regulations!



□ Maintenance

Separator must be serviced at least every 6 months. System must be emptied to do this. Carefully check that all system components are in good working order and undamaged. Then fill separator and sludge trap with water*, hold seal open by hand or insert later.

* Sludge trap of this type of system must be filled with fresh water.

It is extremely important to follow the accident prevention regulations! Keep these instructions in close proximity to the separator!

Coalescence insert description and maintenance guide

1. Description: The coalescence insert consists of lamellar material that is in the coalescence chamber.
2. Maintenance The coalescence material must be checked monthly for soiling. If it cannot be rinsed back easily it must be removed and cleaned. Replace material with new material if necessary. Do not remove coalescence material during operation!

OPERATION AND MAINTENANCE OF STEEL AQUAFIX GREASE SEPARATORS

□ Before start-up

Clean entire system and remove any residual mortar, soil etc. if necessary. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following instructions must be followed for the entire system:

- DIN 4040 (grease separation systems)
 - DIN 1986 (estate drainage systems)
 - Local water removal regulations and other instructions
- Only sewage that does not have a detrimental effect on the intended operation of the separator must be led to the separator. It is particularly important to prevent domestic sewage and light mineral liquids from entering the separator. Do not allow rainwater to enter the system.
- Keep these instructions in close proximity to the separator!**

□ Disposal

1. Grease separators must be cleaned at least once per month, possibly more frequently. Cleaning must take place more frequently if the separator or sludge trap storage capacity is exceeded. The operation of the separator must not be affected.
2. Have all separated material drained, cleaned and taken away by an approved disposal company.
3. Fill entire system with fresh water after it has been emptied and drained.
4. Use mobile ladders when entering the system. Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

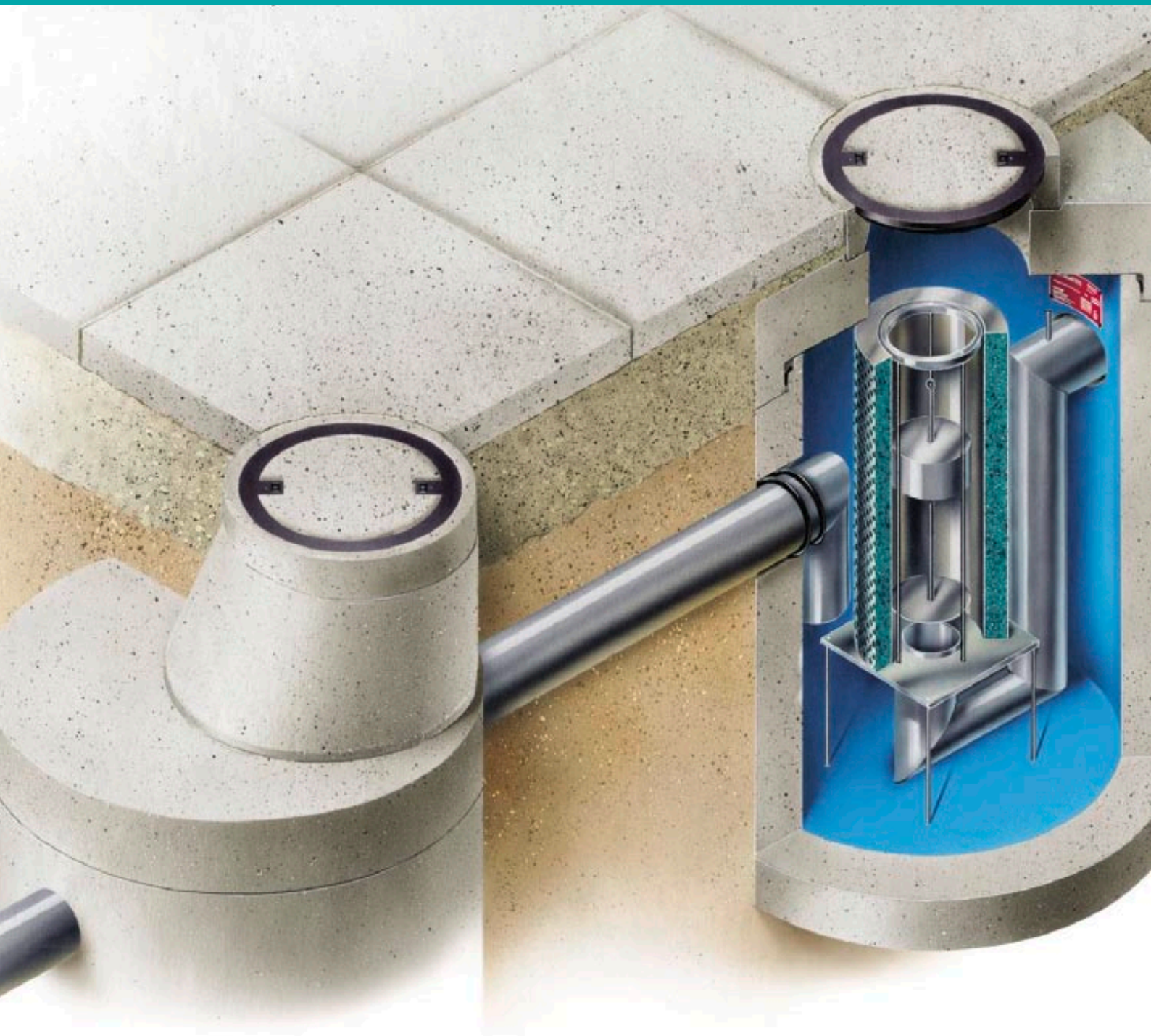
□ Maintenance

The separator must be serviced at least once per month. The system must be drained and cleaned in order to do this. Carefully check that all system components are in good working order and undamaged. Then refill system with fresh water. It is extremely important to observe the accident prevention regulations!

AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.





AT A GLANCE:

- ✓ High quality concrete
- ✓ Strong wall thickness
- ✓ Conforms to standards - even down to the details

AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.

FEATURES

- high grade reinforced concrete C35/45 in accordance with Eurocode EC 206, DIN 1045 and 4281, wall thickness at least 120 mm
- coating consisting of three layers of epoxy resin resistant to light liquids and fatty acids
- conform to European standards EN 858 and 1825



AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

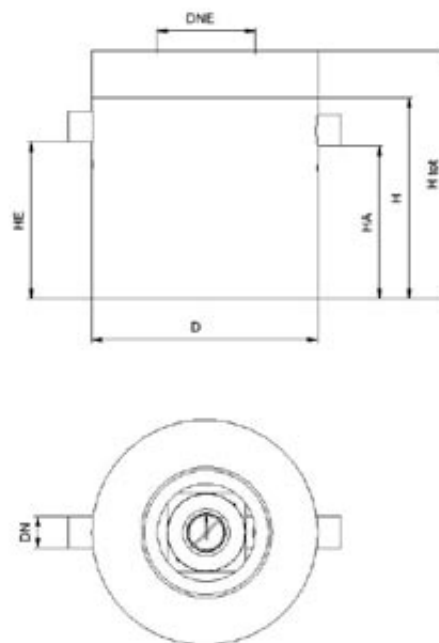
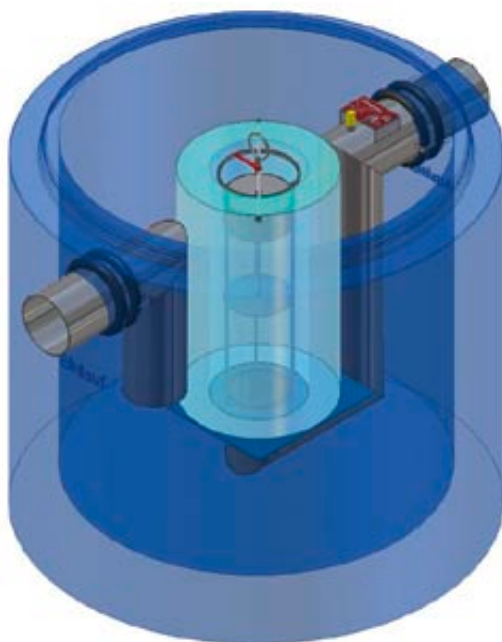
AQUAFIX® „10 PE“

AQUAFIX® „PP“

**INSTALLATION
INSTRUCTIONS**

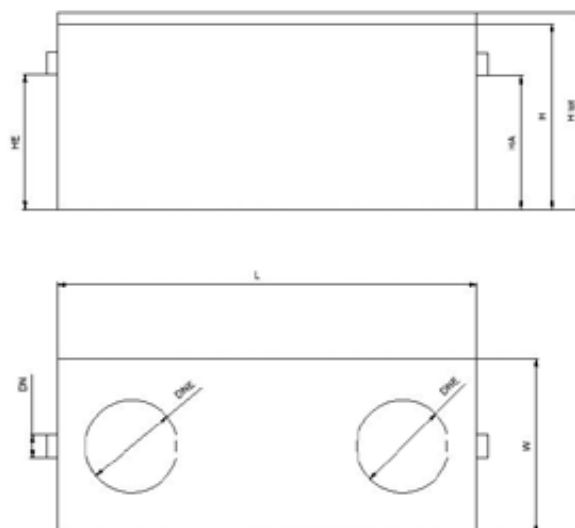
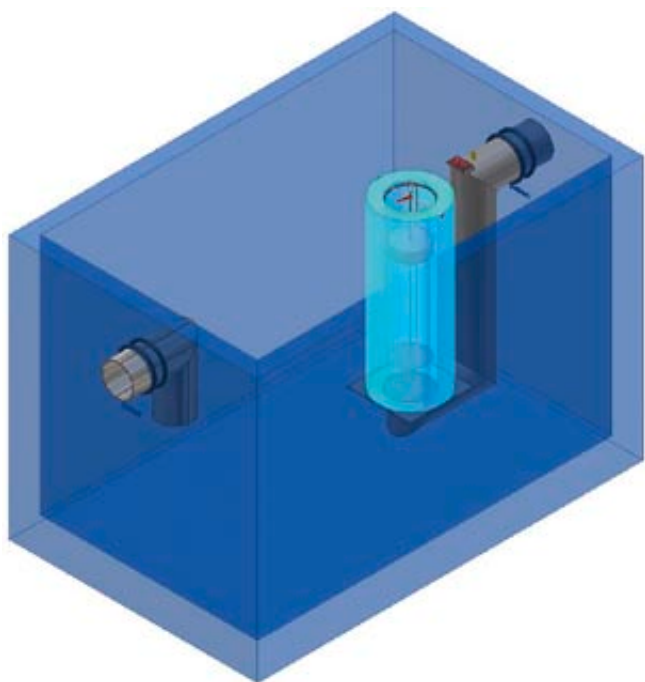
AQUAFIX® Separators from concrete - Series P

AQUAFIX® - K Coalescence separator



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| K 03 | 1300 | 1300 | 1085 | 3 | 1000 | - | 530 | 110 | 900 | 875 | 625 | - | 2160,0 | 154 | 103030P |
| K 06 | 1300 | 1300 | 1085 | 6 | 1000 | - | 530 | 110 | 900 | 875 | 625 | - | 2160,0 | 154 | 103060P |
| K 10 | 1300 | 1300 | 1085 | 10 | 1000 | - | 530 | 150 | 845 | 820 | 625 | - | 2160,0 | 162 | 103100P |
| K 15 | 1500 | 1500 | 1285 | 15 | 1200 | - | 930 | 200 | 1000 | 975 | 625 | - | 3360,0 | 246 | 103150P |
| K 20 | 1800 | 1800 | 1285 | 20 | 1500 | - | 1450 | 200 | 1000 | 975 | 625 | - | 4470,0 | 332 | 103200P |
| K 30 | 2300 | 2300 | 1535 | 30 | 2000 | - | 3220 | 250 | 1200 | 1175 | 800 | - | 7360,0 | 628 | 103300P |
| K 40 | 2740 | 2740 | 2035 | 40 | 2500 | - | 7480 | 250 | 1675 | 1650 | 800 | - | 10200,0 | 996 | 103400P |
| K 50 | 2740 | 2740 | 2035 | 50 | 2500 | - | 8460 | 250 | 1900 | 1875 | 800 | - | 10300,0 | 986 | 103500P |

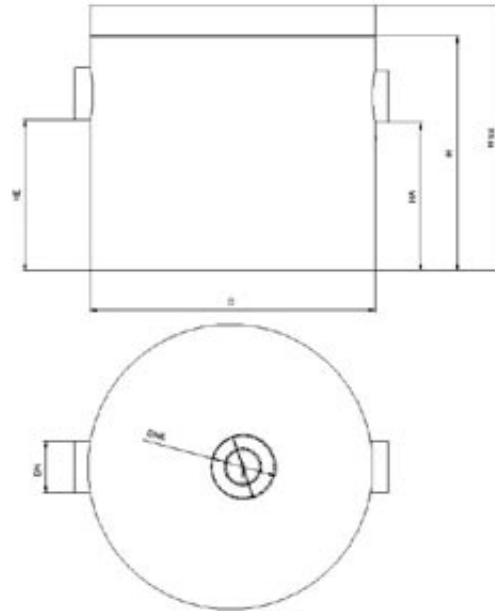
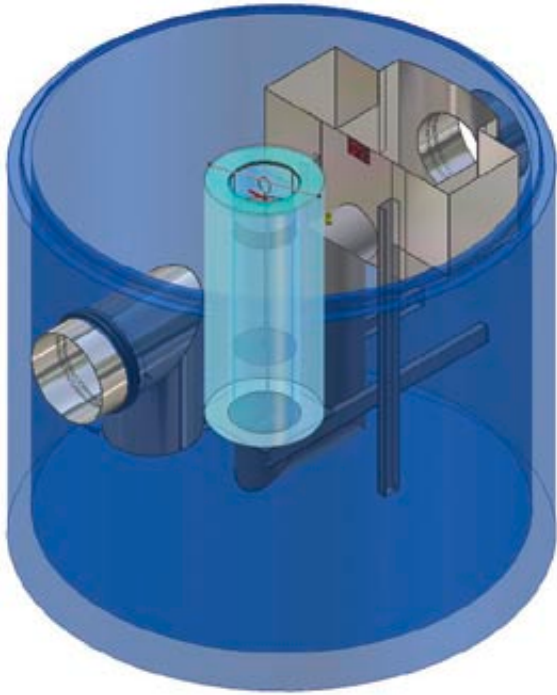
AQUAFIX® - K Coalescence separator - rectangular shape



| | Length mm | Width mm | Height mm | max. ϕ Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|----------------------|--------------|-------------|--------------|----------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| K 060 rectangular | 3660 | 2360 | 2500 | 60 | - | - | 11075 | 300 | 1820 | 1800 | 1000 | 1000 | 17421,0 | 2075 | 178060 |
| K 080 rectangular | 4910 | 2360 | 2500 | 80 | - | - | 15005 | 300 | 1820 | 1800 | 1000 | 1000 | 22112,0 | 2850 | 178080 |
| K 100 rectangular | 5660 | 2360 | 2500 | 100 | - | - | 17446 | 300 | 1820 | 1800 | 1000 | 1000 | 24926,0 | 3314 | 178100 |

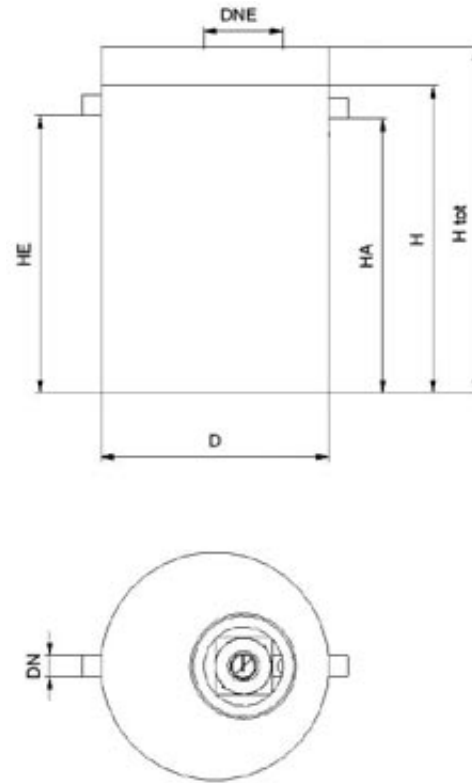
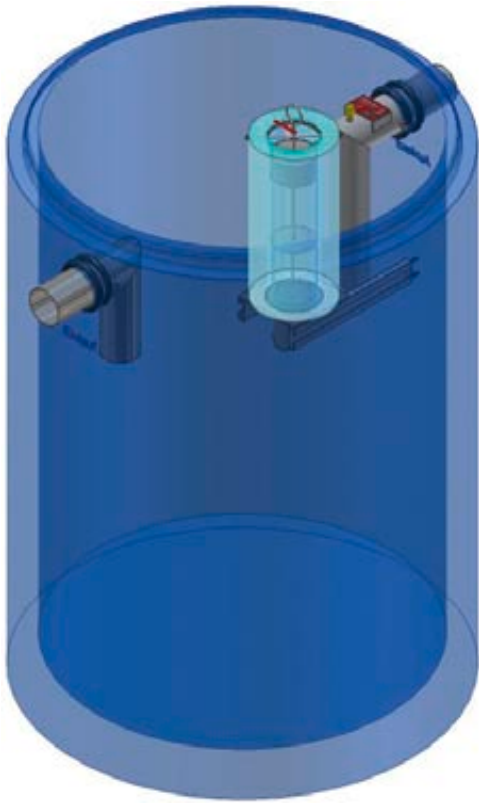
AQUAFIX® Separators from concrete - Series P

AQUAFIX® - K2BP Coalescence separator with double-bypass



| | Length mm | Width mm | Height mm | max. \varnothing Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-----------------|--------------|-------------|--------------|-----------------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| K2BP 20/0200 | 2740 | 2740 | 2000 | 200 | 2500 | - | 5450 | 500 | 1430 | 1275 | 625 | - | 7100,0 | 1227 | 174020P |
| K2BP 40/0400 | 2740 | 2740 | 2250 | 400 | 2500 | - | 6185 | 600 | 1600 | 1425 | 625 | - | 7200,0 | 1227 | 174040P |
| K2BP 60/0600 | 2740 | 2740 | 2500 | 600 | 2500 | - | 6920 | 800 | 1750 | 1575 | 625 | - | 7900,0 | 1227 | 174060P |

AQUAFIX® - SK Coalescence separator with sludge trap



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|---------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SK 04/0600 | 1300 | 1300 | 2000 | 4 | 1000 | 628 | 608 | 150 | 1720 | 1695 | 625 | - | 2850,0 | 132 | 176043 |
| SK 06-10/2500 | 1800 | 1800 | 2500 | 10 | 1500 | 2473 | 1104 | 150 | 2195 | 2170 | 625 | - | 5380,0 | 364 | 176105 |
| SK 06-10/5000 | 2740 | 2740 | 2200 | 10 | 2500 | 4906 | 3557 | 150 | 1895 | 1870 | 625 | - | 7830,0 | 1011 | 176107 |
| SK 15/3000 | 2740 | 2740 | 2200 | 15 | 2500 | 2944 | 5029 | 200 | 1875 | 1800 | 625 | - | 7450,0 | 1011 | 176155 |
| SK 15/5000 | 2740 | 2740 | 2500 | 15 | 2500 | 4906 | 4538 | 200 | 2125 | 2100 | 625 | - | 9410,0 | 1011 | 176157 |
| SK 20/4000 | 2740 | 2740 | 2500 | 20 | 2500 | 3925 | 5520 | 200 | 2125 | 2100 | 625 | - | 9410,0 | 1070 | 176204 |
| SK 30/5000 | 2740 | 2740 | 2200 | 30 | 2500 | 2944 | 5029 | 250 | 1800 | 1775 | 800 | - | 6688,0 | 1079 | 176305 |
| SK 40/4000 | 2740 | 2740 | 2750 | 40 | 2500 | 3925 | 6746 | 250 | 2350 | 2325 | 800 | - | 7368,0 | 1104 | 176406 |
| SK 50/3000 | 2740 | 2740 | 2750 | 50 | 2500 | 2944 | 7727 | 250 | 2350 | 2325 | 800 | - | 7376,0 | 1128 | 176505 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

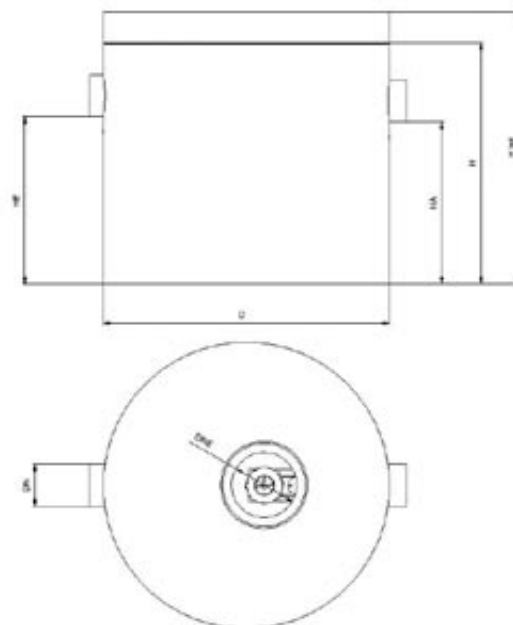
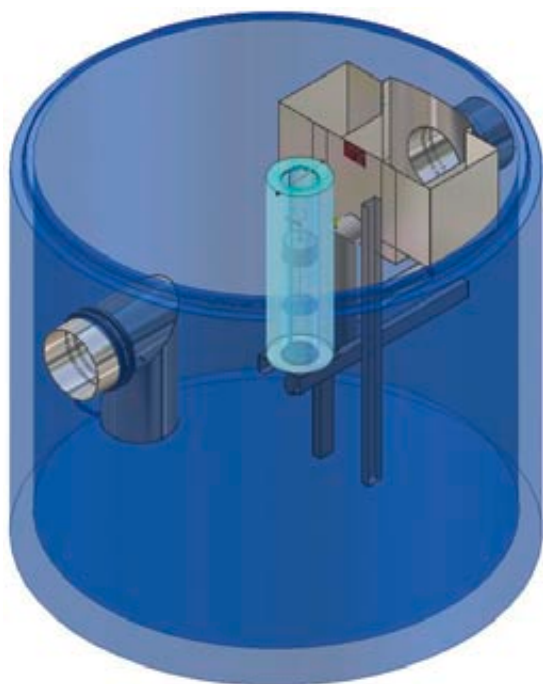
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

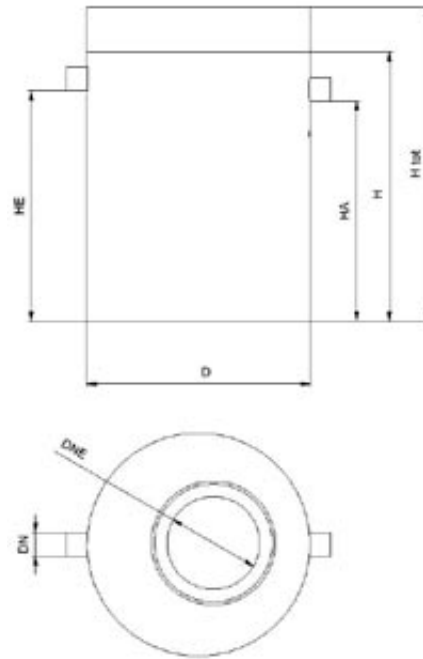
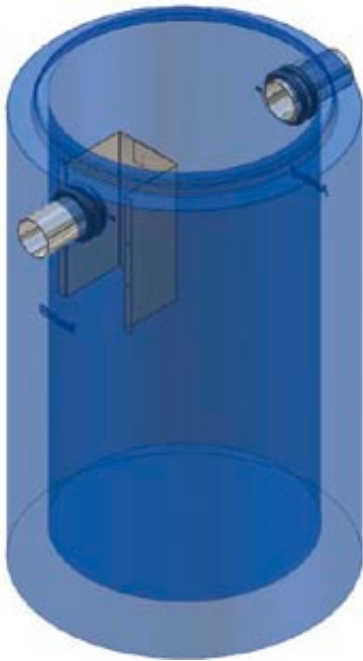
AQUAFIX® Separators from concrete - Series P

AQUAFIX® - SK2BP Coalescence separator with sludge trap and double-bypass



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|------------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| S2KBP 10/0100 | 2740 | 2740 | 2540 | 100 | 2500 | 3300 | 3595 | 400 | 1625 | 1550 | 625 | - | 7200,0 | 1011 | 175010P |
| SK2BP 15/0150 | 2740 | 2740 | 2735 | 150 | 2500 | 3300 | 4540 | 400 | 1870 | 1750 | 625 | - | 7900,0 | 1227 | 175015P |

AQUAFIX® - S Sludge trap



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| S 0650/03 | 1300 | 1300 | 1550 | - | 1000 | 650 | - | 100 | 1275 | 1225 | - | - | 2610,0 | - | 101043P |
| S 1300/03 | 1500 | 1500 | 1625 | - | 1200 | 1300 | - | 100 | 1350 | 1300 | - | - | 3350,0 | - | 101064P |
| S 2500/10 | 1800 | 1800 | 1920 | - | 1500 | 2500 | - | 150 | 1620 | 1570 | - | - | 4940,0 | - | 101105P |
| S 3500/10 | 2300 | 2300 | 1500 | - | 2000 | 3500 | - | 150 | 1200 | 1150 | - | - | 5860,0 | - | 101106P |
| S 5000/10 | 2500 | 2500 | 2000 | - | 2000 | 5000 | - | 150 | 1700 | 1650 | - | - | 7830,0 | - | 101107P |
| S 7500/10 | 2800 | 2800 | 2170 | - | 2500 | 7500 | - | 150 | 1870 | 1820 | - | - | 9930,0 | - | 101108P |
| S 10000/10 | 2800 | 2800 | 2800 | - | 2500 | 10000 | - | 150 | 2500 | 2450 | - | - | 11890,0 | - | 101109P |
| S 2500/20 | 1800 | 1800 | 1920 | - | 1500 | 2500 | - | 200 | 1570 | 1520 | - | - | 4940,0 | - | 101205P |
| S 5000/20 | 2500 | 2500 | 2000 | - | 2000 | 5000 | - | 200 | 1650 | 1600 | - | - | 7830,0 | - | 101207P |
| S 8000/20 | 2800 | 2800 | 2250 | - | 2500 | 8000 | - | 200 | 1900 | 1850 | - | - | 9930,0 | - | 101208P |
| S 10000/20 | 2800 | 2800 | 2750 | - | 2500 | 10000 | - | 200 | 2400 | 2350 | - | - | 11890,0 | - | 101209P |
| S 5000/30 | 2500 | 2500 | 2000 | - | 2000 | 5000 | - | 250 | 1600 | 1550 | - | - | 5290,0 | - | 101307P |
| S 7500/30 | 2800 | 2800 | 2170 | - | 2500 | 7500 | - | 250 | 1770 | 1720 | - | - | 9930,0 | - | 101308P |
| S 10000/30 | 2800 | 2800 | 2800 | - | 2500 | 10000 | - | 250 | 2400 | 2350 | - | - | 11890,0 | - | 101309P |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

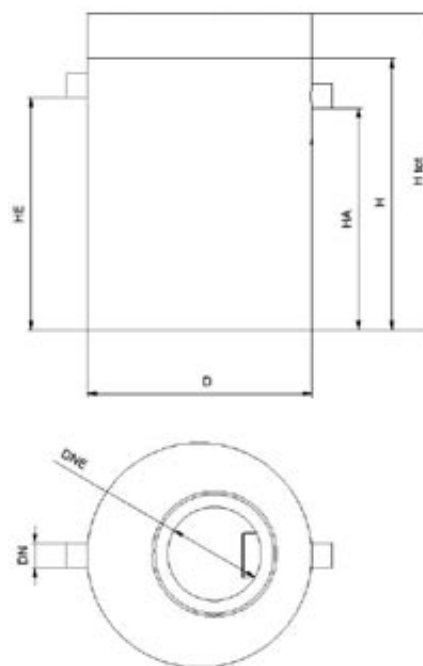
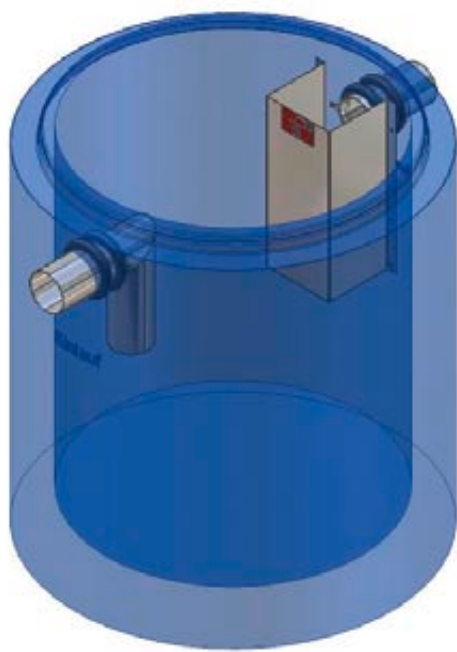
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

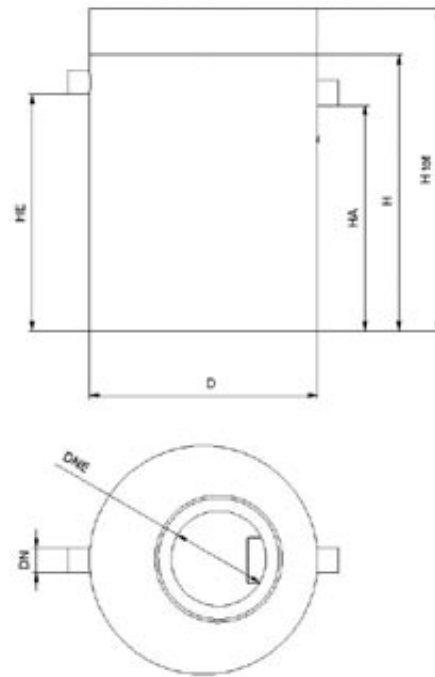
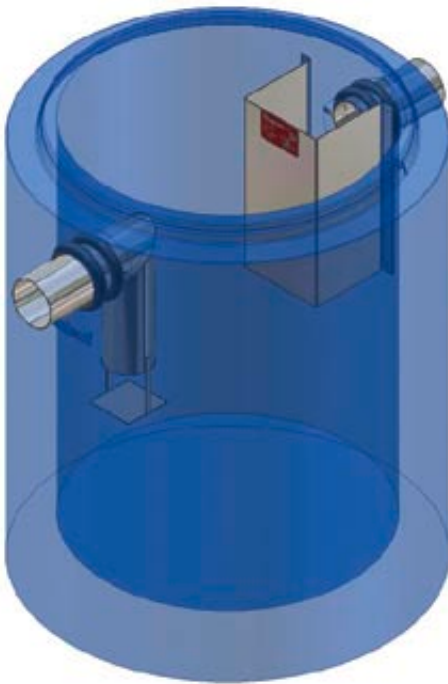
AQUAFIX® Separators from concrete - Series P

AQUAFIX® - F Grease separator



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|---------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| F 04 | 1500 | 1500 | 1560 | 4 | 1200 | - | 1300 | 150 | 1375 | 1350 | - | - | 2620,0 | 238 | 108040 |
| F 07 | 1800 | 1800 | 1560 | 7 | 1500 | - | 1811 | 150 | 1200 | 1175 | - | - | 4125,0 | 397 | 108070 |
| F 10 | 2300 | 2300 | 1360 | 10 | 2000 | - | 2592 | 150 | 1270 | 1245 | - | - | 5370,0 | 741 | 108100 |
| F 15/20 | 2740 | 2500 | 1800 | 20 | 2500 | - | 6259 | 200 | 1450 | 1425 | - | - | 8765,0 | 1139 | 108150 |

AQUAFIX® - SF Grease separator with sludge trap



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SF 04/0400 | 1300 | 1300 | 1500 | 4 | 1000 | 400 | 385 | 150 | 1220 | 1195 | 625 | - | 1696,0 | 157 | 178042 |
| SF 04/0800 | 1300 | 1300 | 2000 | 4 | 1000 | 800 | 385 | 150 | 1730 | 1705 | 625 | - | 2012,0 | 157 | 178043 |
| SF 10/1000 | 1800 | 1800 | 1700 | 10 | 1500 | 1007 | 1096 | 150 | 1420 | 1395 | 625 | - | 3201,0 | 353 | 178104 |
| SK 10/2000 | 1800 | 1800 | 2300 | 10 | 1500 | 2015 | 1096 | 150 | 2030 | 2005 | 625 | - | 3757,0 | 353 | 178105 |
| SF 20/2000 | 2300 | 2300 | 2000 | 20 | 2000 | 2010 | 2262 | 200 | 1650 | 1625 | 625 | - | 5291,0 | 628 | 178205 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

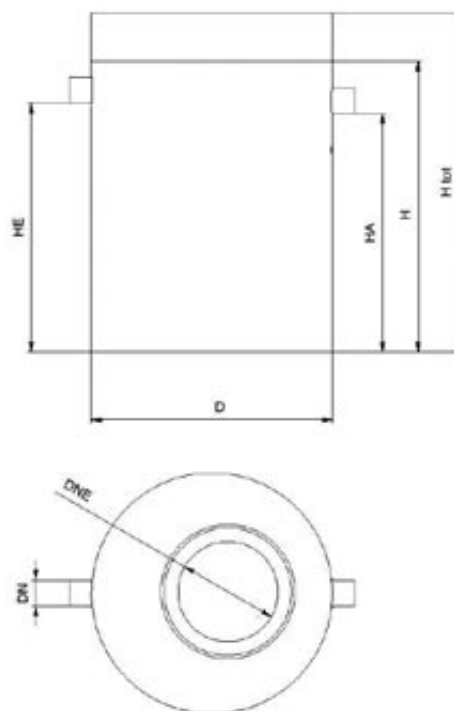
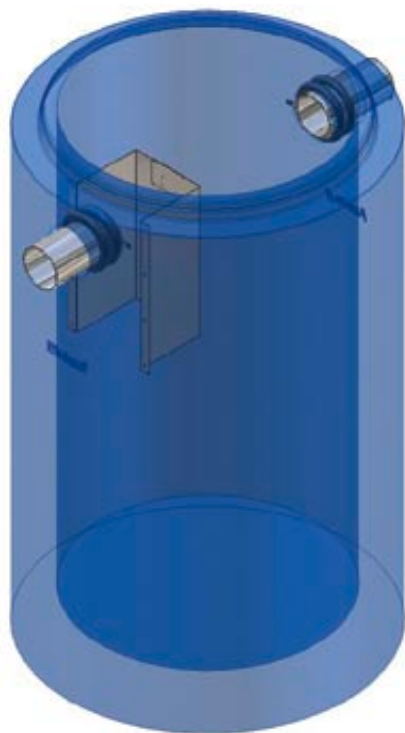
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from concrete - Series P

AQUAFIX® - Sf Sludge trap for grease



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-----------------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| Sf 800 l for F 04 | 1300 | 1300 | 1550 | 4 | 1000 | 800 | - | 150 | 1250 | 1200 | - | - | 1678,0 | - | 107043P |
| Sf 700 l for F 07 | 1300 | 1300 | 1550 | 7 | 1000 | 700 | - | 150 | 1250 | 1200 | - | - | 1678,0 | - | 107073P |
| Sf 1400 l for F 07 | 1500 | 1500 | 1625 | 7 | 1200 | 1400 | - | 150 | 1325 | 1275 | - | - | 2219,0 | - | 107074P |
| Sf 2500 l for F 10 | 1800 | 1800 | 1920 | 10 | 1500 | 2500 | - | 150 | 1620 | 1570 | - | - | 3336,0 | - | 107104P |
| Sf 2500 l for F 20 | 1800 | 1800 | 1920 | 20 | 1500 | 2500 | - | 200 | 1570 | 1520 | - | - | 3336,0 | - | 107205P |

| | | | | | |
|--|--|--|--|--|---------------------------|
| | | | | | AQUAFIX® STEEL „G“ |
| | | | | | AQUAFIX® STEEL „K“ |
| | | | | | AQUAFIX® CONCRETE |
| | | | | | AQUAFIX® „10 PE“ |
| | | | | | AQUAFIX® „PP“ |
| | | | | | INSTALLATION INSTRUCTIONS |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

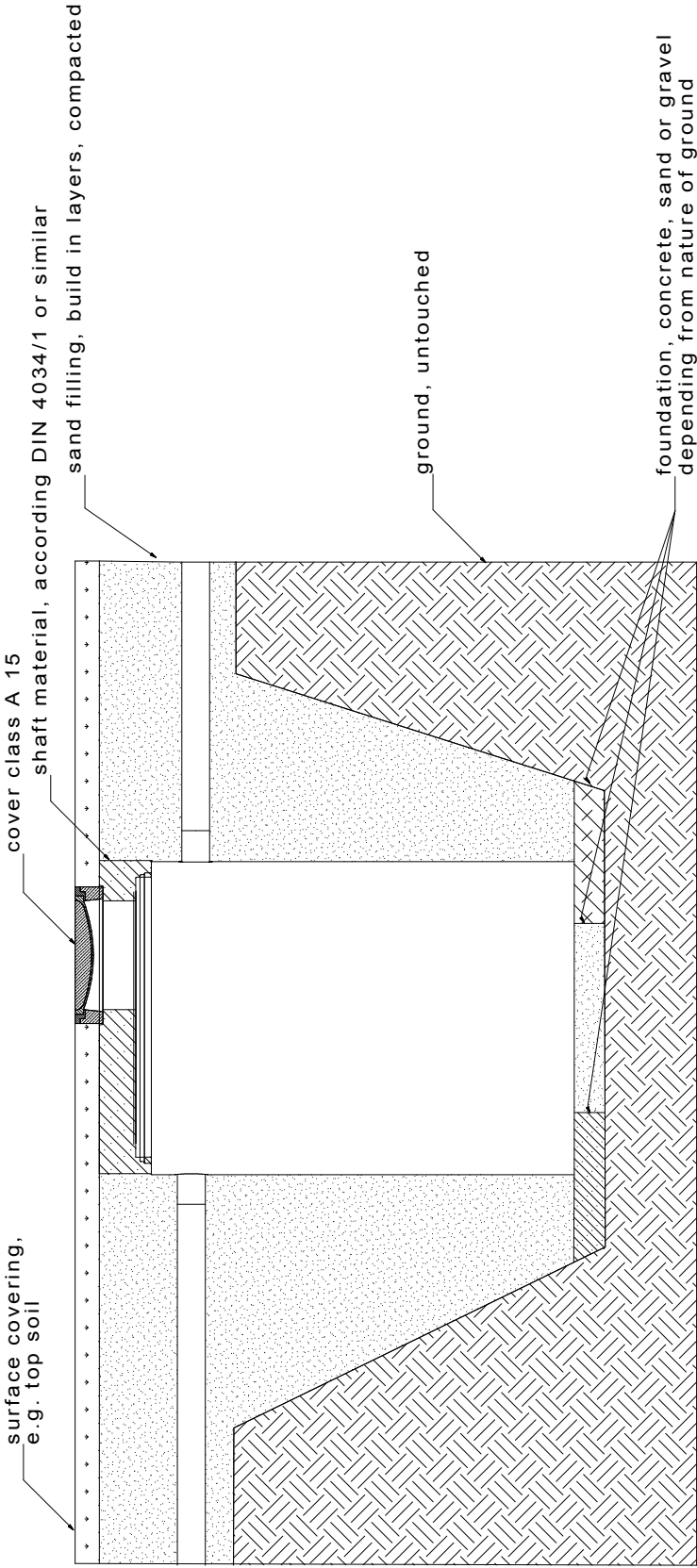
1. Please check completeness of delivery. Note any missing parts or transit damage that has occurred on the delivery note immediately. Complaints that are received later will not be entertained. Otherwise our general terms and conditions apply.
2. The separator system must be installed in a location outside the washing areas where it will not overflow or back up, as close as possible to the location where the waste water occurs. It must also be in the open, frost-free and easily accessible for cleaning vehicles. The drains and pipes must be able to drain until empty.
3. The base of the excavation must be level. If no suitable soil is available, create a 10 cm thick bed of sand and fine gravel and compress. If the ground is non-load bearing, make a statically measured foundation slab. Put a 10 cm compensation layer of sand onto the foundation slab.
4. Take thickness of foundation and compensation layer into consideration during height measurements. Pay attention to height information in installation drawing.
5. The tanks must be installed in a level position.
6. Install system so that top edge is higher than final admission point.
7. Manual transport on side can be done easily with steel bars which can be put through the holes of the outer stop rings.
8. Arrange maintenance shaft at outlet side such that all separator areas are accessible and the floats and the coalescence insert can be removed if necessary.
9. Ensure that the seals are correctly seated! Please use an adequate quantity of antiseize agent. It is advisable to offset the relative positions of the shaft elements in mortar or using hose bearings.
10. The distance between the individual elements should be 60 - 100 cm.
11. Ensure that pipelines are connected without leaks.
12. Fill all tanks with fresh water before filling and check for leaks. **This leak test is mandatory!**
13. Do not alter positions of tanks and lines when filling and compressing with sand. Please pay attention to the provided drawing.
14. When all tanks, covering plates, tops and covers and connecting pipes have been correctly located, **the system must be cleaned.**
15. When filling light liquid separators with fresh water, hold float in raised position until it can float independently.

Do not confuse the inlet with the outlet! Adhere to order of tanks! Maintain slope! Recommended total incline of system 2 - 5%!

Report start-up to the responsible authority. Pay attention to accident prevention regulations during installation!

INSTALLATION DRAWING

Installation drawing separator from concrete
walkable areas - loading capacity A 15

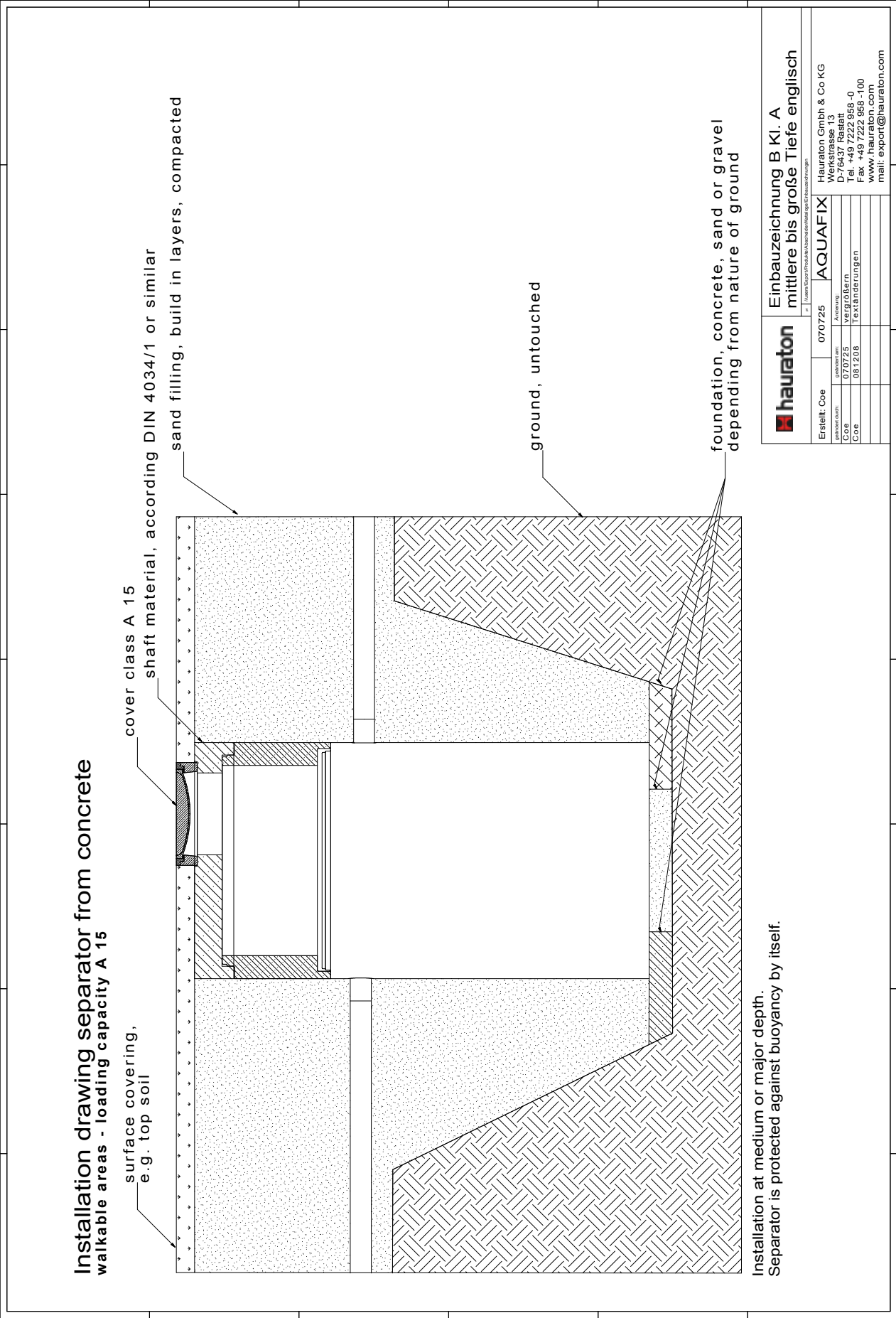


Installation at minor depth.
Separator is protected against buoyancy by itself.

hauraton Einbauezeichnung B Kl. A
geringe Tiefe englisch

| | | | | | |
|-----------------|----------------|--------|----------------|---------------------------|--|
| Erstellt: Coo | | 070725 | AQUAFIX | Hauraton GmbH & Co KG | |
| gezeichnet von: | gezeichnet am: | 070725 | Vergrößern | Werksstrasse 13 | |
| Coo | Coo | 081208 | Textänderungen | 47670 Köln, NRW | |
| | | | | Tel. +49 7222 958 -0 | |
| | | | | Fax +49 7222 958 -100 | |
| | | | | www.hauraton.com | |
| | | | | mail: export@hauraton.com | |

INSTALLATION DRAWING



**hauraton**

Einbauzeichnung B Kl. A
mittlere bis große Tiefe englisch

| | | | |
|-----------------|----------------|----------------|---------|
| Erstellt: Coe | | 070725 | AQUAFIX |
| gezeichnet von: | gezeichnet am: | Anweisung: | |
| Coe | 07.07.25 | vergrößern | |
| Coe | 08.12.08 | Textänderungen | |

Hauraton GmbH & Co KG

Werkstrasse 13

D-76437 Hauraton

Telefon +49 7222 958 -0

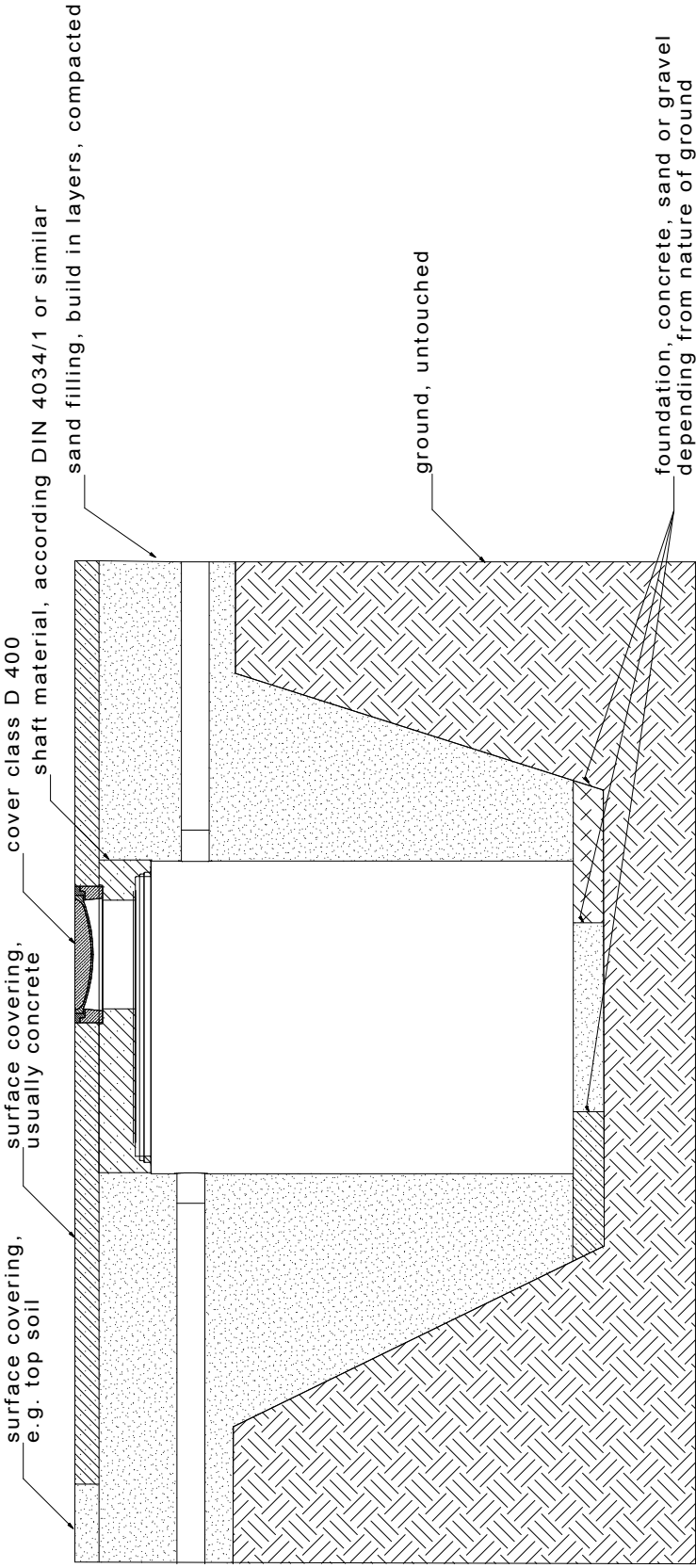
Fax +49 7222 958 -100

www.hauraton.com

mail: export@hauraton.com

INSTALLATION DRAWING

Installation drawing separator from concrete
trafficable areas - loading capacity D 400



Installation at medium or major depth.
Separator is protected against buoyancy by itself.

**hauraton**

Einbauzeichnung B Kl. D
geringe bis mittlere Tiefe englisch

Erstellt: Coo

gezeichnet: durt

Coo

Coo

070725

081208

Arbeitung

vergrößern

Textänderungen

hauraton GmbH & Co KG

Werkstrasse 13

42699 Solingen

Telefon +49 2122 958-0

Fax +49 7222 958-100

www.hauraton.com

mail: export@hauraton.com

AQUAFIX

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hauraton GmbH & Co KG

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Fax +49 7222 958-100

www.hauraton.com

mail: export@hauraton.com

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INSTALLATION INSTRUCTIONS

AQUAFIX® "PP"

AQUAFIX® "10 PE"

AQUAFIX® CONCRETE

AQUAFIX® STEEL "K"

AQUAFIX® STEEL "G"

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

1. Clean the entire system and remove mortar residue, soil etc. Remove lock during this operation and (if separator is a coalescence separator) remove the coalescence insert and replace them again afterwards.
2. Fill sludge trap and separator with fresh water. Attention! Always hold lock in raised position when filling, or replace when filling is complete.
3. Re-check tightness of joints in the system.

□ Operation

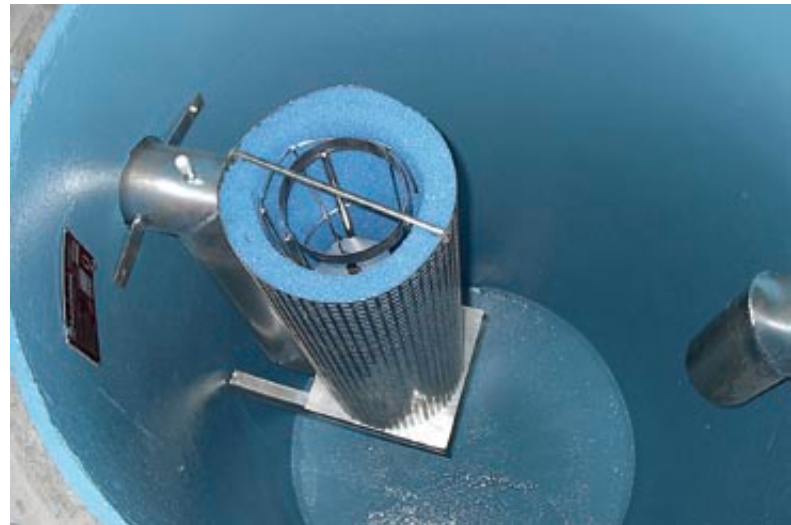
As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Emulsions and solvents (cold cleaners, drilling and cutting oils, water-soluble hydrocarbons etc.) must be kept away from the separating system and disposed off as special waste. Rainwater from surfaces for which the separating system is not intended and domestic waste water must not be led to the separating system. Do not remove coalescence insert during operation!

□ Disposal

Separating systems must be emptied at least every six months unless otherwise stipulated by the monitoring authority, but no later than when 85% of the storage capacity has been reached. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.



The separated material must only be emptied, cleaned and taken away by authorised disposal companies.

The oil layer and water beneath it must be extracted first, preferably into separate tanks. The float and the lock must be cleaned and the operation thereof checked every time the equipment is emptied. Remove coalescence insert, clean the sludge trap, give damaged coalescence material to the disposal company and replace with new material. Re-insert the coalescence insert.

Every time that the equipment is emptied and cleaned, refill system with fresh water. Hold lock open by hand when doing this or insert it again afterwards. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand.

□ Servicing

The separator system must be serviced at least every 6 months. The system may need to be emptied to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill separator and sludge trap with fresh water, Hold lock open by hand or insert afterwards. **Pay attention to accident prevention regulations!**

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

Clean the entire system and remove mortar residue, soil etc. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Particularly domestic waste water and mineral light liquids must be kept away from the separating system, nor must rainwater be led to the separating system.

□ Disposal

1. The separating systems must be cleaned at least every 14 days more frequently if necessary. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.
2. The separated material must only be emptied, cleaned and taken away by authorised disposal companies.
3. Every time that the equipment is emptied and cleaned, refill system with fresh water.
4. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

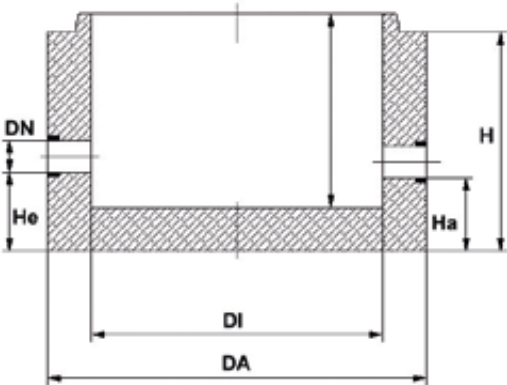
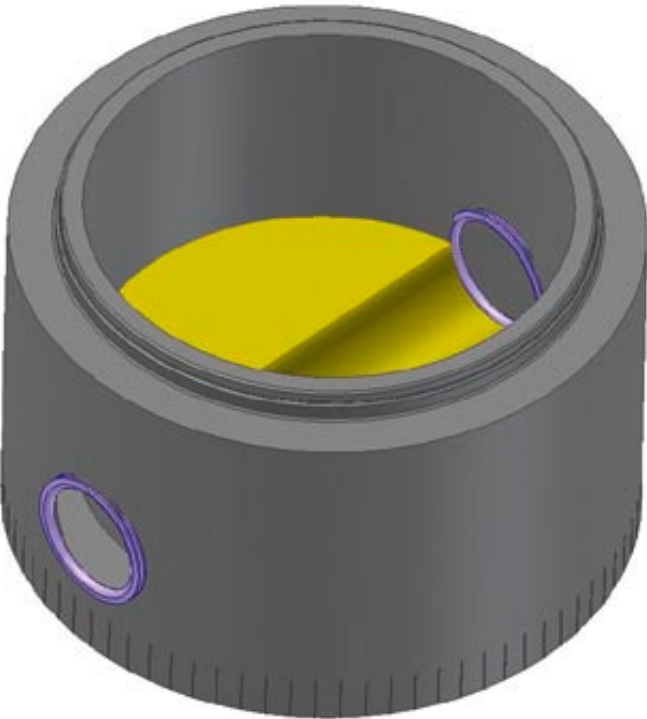
□ Servicing

The separator system must be serviced at least every 14 days. The system must be emptied and cleaned to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill the system with fresh water. Pay attention to accident prevention regulations!



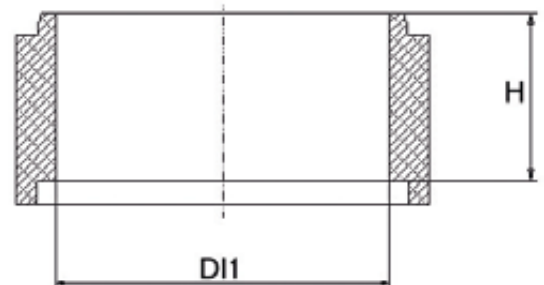
AQUAFIX® Shaft material - Series P

AQUAFIX® - Sample taking shaft



| | Length mm | Width mm | Height mm | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | Weight kg | Item No. |
|------|--------------|-------------|--------------|------------------------|---------------------|----------------------|--------------|-------------|
| P100 | 1300 | 1300 | 750 | 100 | 270 | 250 | 1100,0 | 159100P |
| P125 | 1300 | 1300 | 750 | 125 | 270 | 250 | 1100,0 | 159125P |
| P150 | 1300 | 1300 | 750 | 150 | 270 | 250 | 1100,0 | 159150P |
| P200 | 1300 | 1300 | 750 | 200 | 270 | 250 | 1100,0 | 159200P |
| P250 | 1300 | 1300 | 750 | 250 | 270 | 250 | 1100,0 | 159250P |

AQUAFIX® - Shaft rings



| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|---------------------|--------------|-------------|--------------|--------------|-------------|
| Shaft ring 1000/250 | - | - | - | 250,0 | 151025 |
| Shaft ring 1000/500 | - | - | - | 500,0 | 151050 |
| Shaft ring 1200/250 | - | - | - | 340,0 | 151225 |
| Shaft ring 1200/500 | - | - | - | 680,0 | 151250 |
| Shaft ring 1500/250 | - | - | - | 530,0 | 151525 |
| Shaft ring 1500/500 | - | - | - | 1060,0 | 151550 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

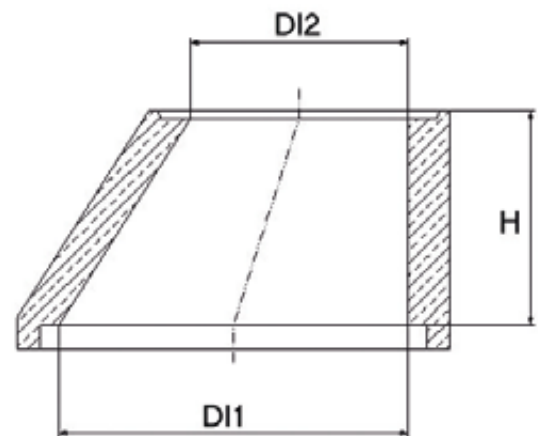
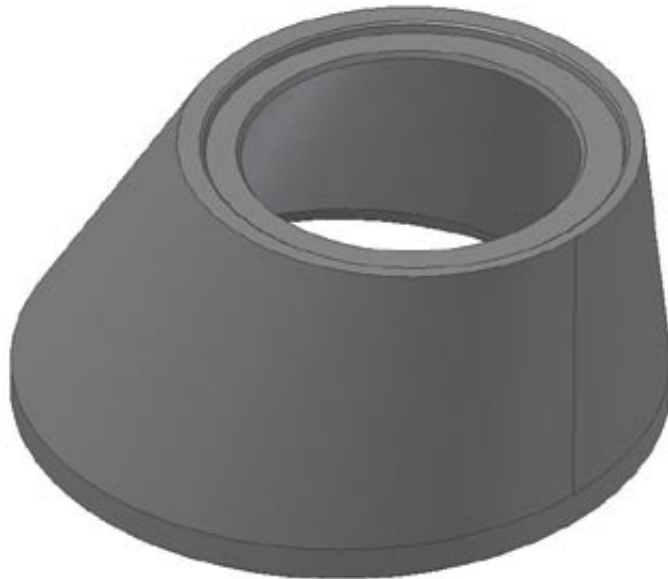
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

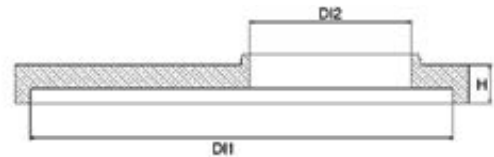
AQUAFIX® Shaft material - Series P

AQUAFIX® - Shaft conus



| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|-----------------------|--------------|-------------|--------------|--------------|-------------|
| Shaft sleeve 1000/600 | - | - | - | 600,0 | 151060 |
| Shaft sleeve 1200/600 | - | - | - | 1000,0 | 151260 |

AQUAFIX® - Reductionplates



| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|--------------------------|--------------|-------------|--------------|--------------|-------------|
| Reduktionplate 1200/1000 | - | - | - | 600,0 | 153121 |
| Reductionplate 1500/1000 | - | - | - | 1050,0 | 153151 |
| Reductionplate 2000/1000 | - | - | - | 1900,0 | 153201 |
| Reductionplate 2500/1000 | - | - | - | 2500,0 | 153251 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

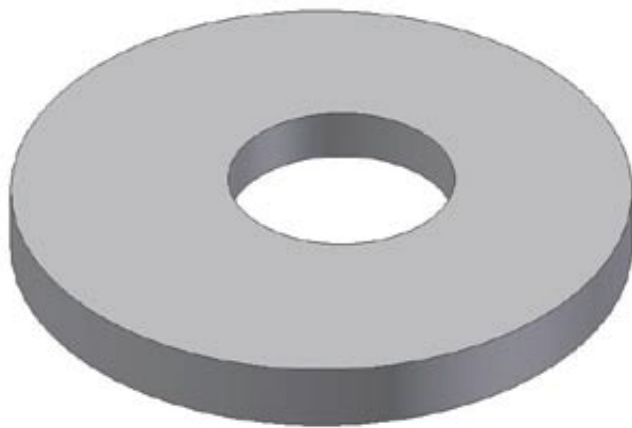
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® Shaft material - Series P

AQUAFIX® - Cover plates



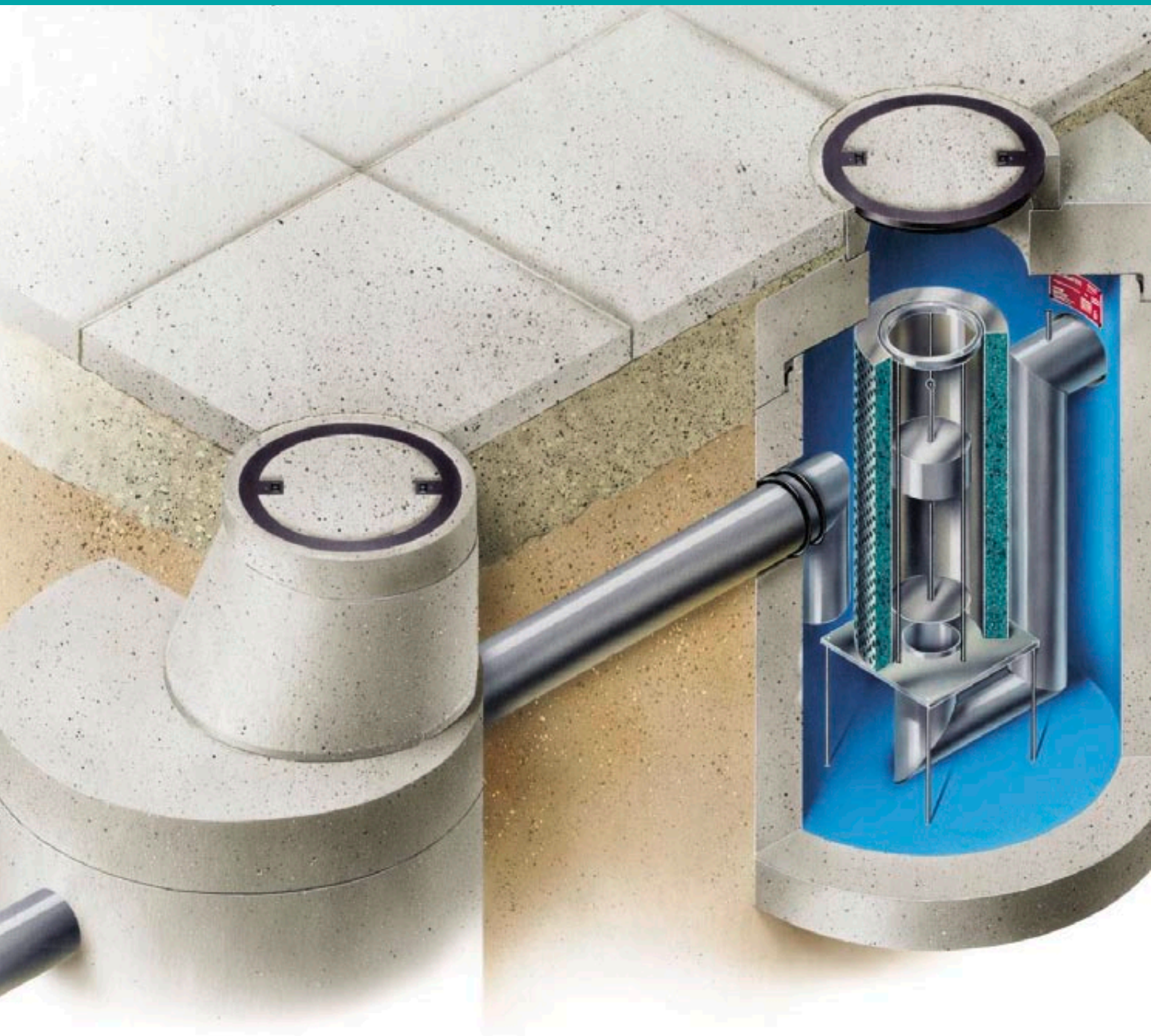
| | Length mm | Width mm | Height mm | Weight kg | Item No. |
|----------------------------|--------------|-------------|--------------|--------------|-------------|
| cover plate 1300/1000/0625 | - | - | - | 600,0 | 141001 |
| cover plate 1800/1500/0625 | - | - | - | 950,0 | 141501 |
| cover plate 1500/1200/0625 | - | - | - | 820,0 | 141205 |
| cover plate 2300/2000/0625 | - | - | - | 2070,0 | 142002 |
| cover plate 2800/2500/0625 | - | - | - | 3143,0 | 142506 |

| | | | | | |
|--|--|--|--|--|---------------------------|
| | | | | | AQUAFIX® STEEL „G“ |
| | | | | | AQUAFIX® STEEL „k“ |
| | | | | | AQUAFIX® CONCRETE |
| | | | | | AQUAFIX® „10 PE“ |
| | | | | | AQUAFIX® „PP“ |
| | | | | | INSTALLATION INSTRUCTIONS |

AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.





AT A GLANCE:

- ✓ High quality concrete
- ✓ Strong wall thickness
- ✓ Conforms to standards - even down to the details

AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.

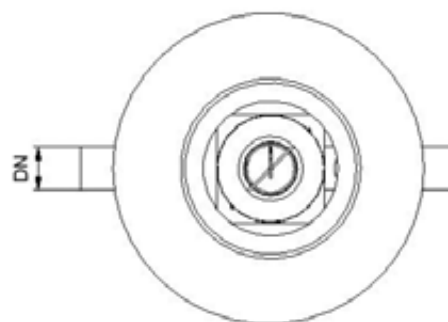
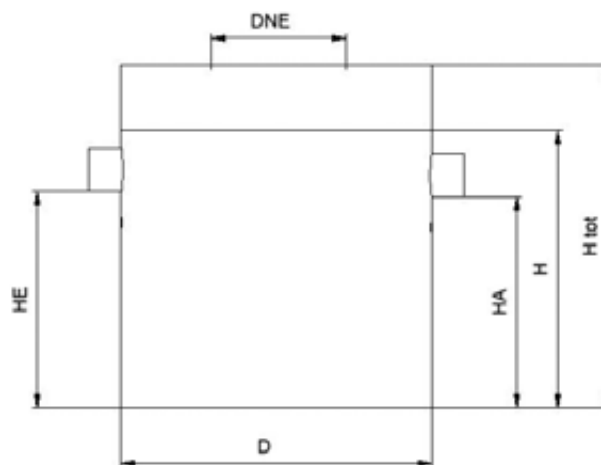
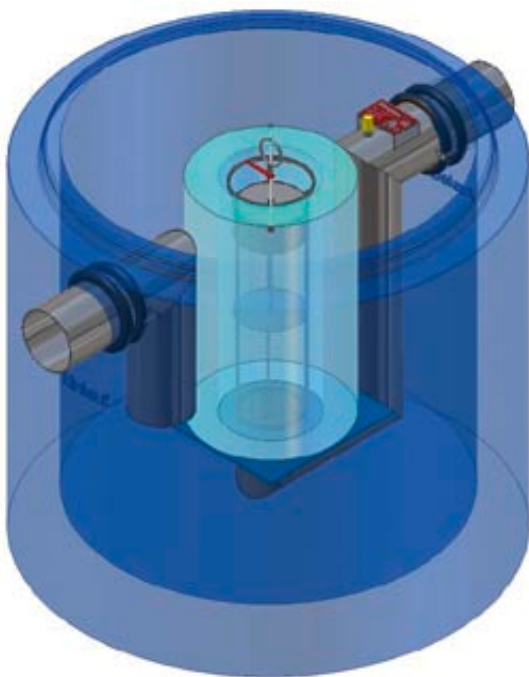
FEATURES

- high grade reinforced concrete C35/45 in accordance with Eurocode EC 206, DIN 1045 and 4281, wall thickness at least 120 mm
- coating consisting of three layers of epoxy resin resistant to light liquids and fatty acids
- conform to European standards EN 858 and 1825



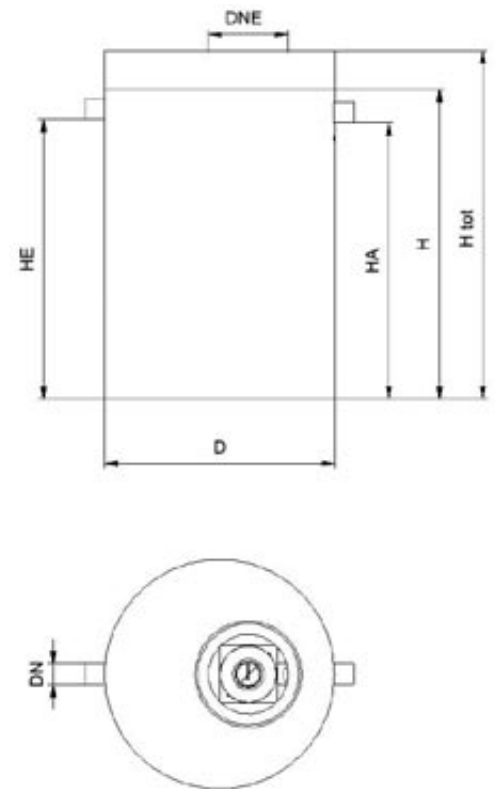
AQUAFIX® Separators from concrete - Series H

AQUAFIX® - K Coalescence separator



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Seperator mm | sludge trap capacity l | separator capacity l | DN in-/ outlet mm | HE H in- let mm | HA H out- let mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capacity l | Item No. |
|--------|--------------|-------------|--------------|--------------------|-----------------|------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|-----------------------|-----------------------|--------------|--------------------------|-------------|
| K 10 H | 1240 | 1240 | 1150 | 10 | 1000 | - | 518 | 150 | 900 | 875 | 800 | - | 1418,0 | 157 | 103100H |
| K 20 H | 1740 | 1740 | 1350 | 20 | 1000 | - | 1439 | 200 | 900 | 875 | 800 | - | 2726,0 | 353 | 103200H |

AQUAFIX® - SK Coalescence separator with sludge trap



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capacity l | seperator capacity l | DN in-/ outlet mm | HE H in- let mm | HA H out- let mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capacity l | Item No. |
|-----------------|--------------|-------------|--------------|------------------|-----------------|------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|-----------------------|-----------------------|--------------|--------------------------|-------------|
| SK 04/0650 H | 1240 | 1240 | 2000 | 4 | 1000 | 650 | 575 | 150 | 1750 | 1725 | 800 | - | 2410,0 | 157 | 176043H |
| SK 06-10/2500 H | 1740 | 1740 | 2500 | 10 | 1500 | 2385 | 1166 | 150 | 2200 | 2175 | 800 | - | 4479,0 | 353 | 176105H |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

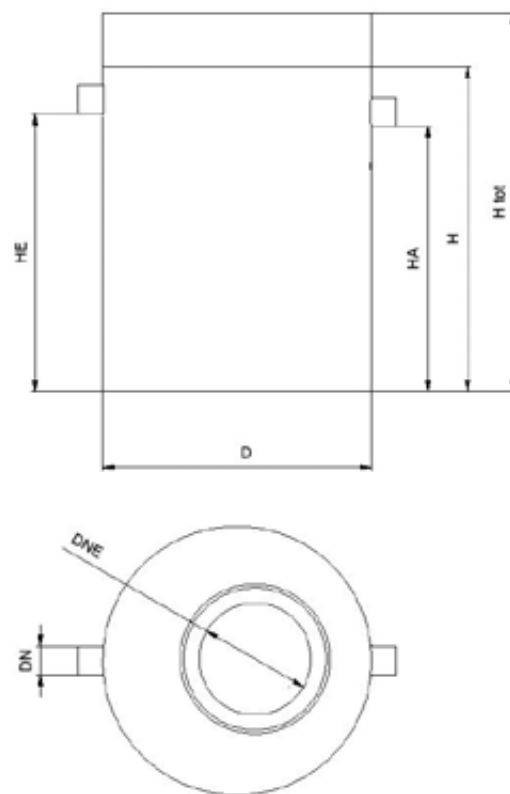
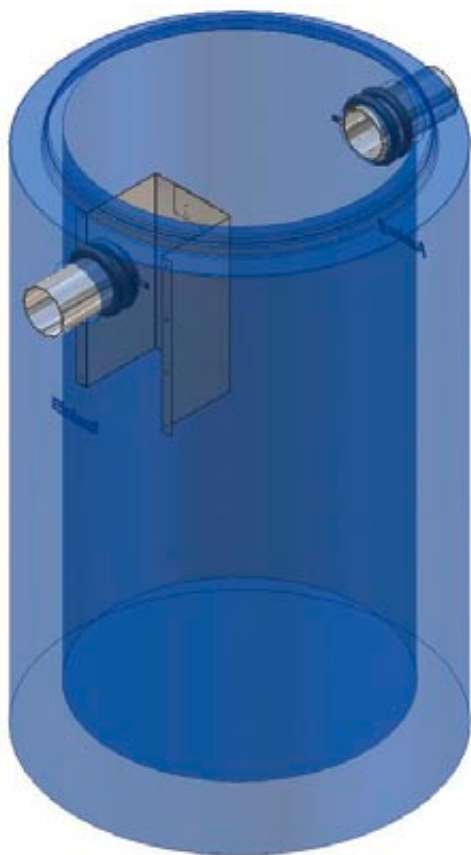
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

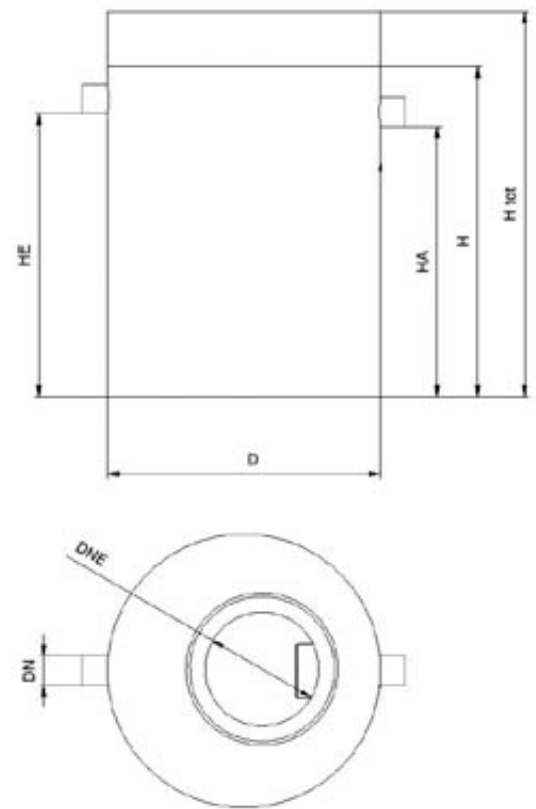
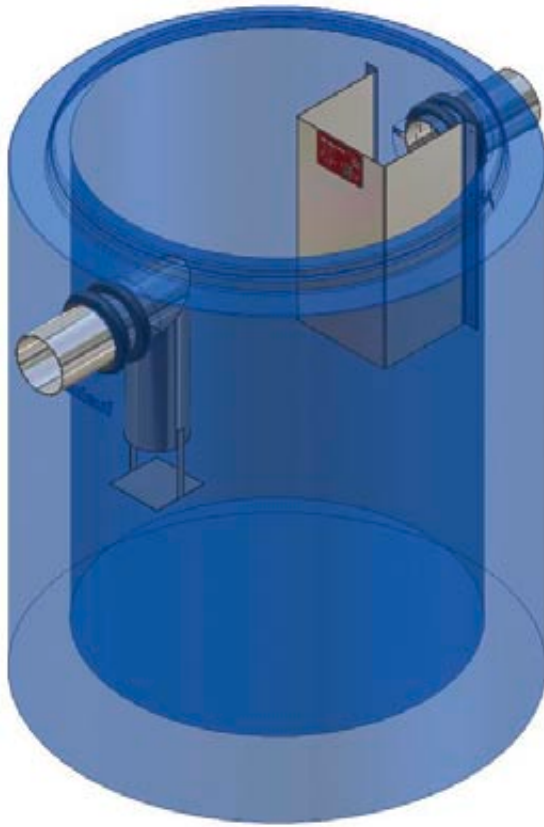
AQUAFIX® Separators from concrete - Series H

AQUAFIX® - S Sludge trap



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Seperator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H out- let mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capacity l | Item No. |
|--------------|--------------|-------------|--------------|--------------------|-----------------|-----------------------------------|--------------------------------------|----------------------------|---------------------|---------------------------|-----------------------|-----------------------|--------------|--------------------------|-------------|
| S 10/02500 H | 1740 | 1740 | 1950 | - | 1500 | 2500 | - | 150 | 1650 | 1625 | 800 | - | 3607,0 | - | 101105H |
| S 20/02500 H | 1740 | 1740 | 1950 | - | 1500 | 2500 | - | 200 | 1600 | 1575 | 800 | - | 3596,0 | - | 101205H |

AQUAFIX® - SF Grease separator with sludge trap



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capacity l | separator capacity l | DN in-/ outlet mm | HE H in- let mm | HA H out- let mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capacity l | Item No. |
|--------------|--------------|-------------|--------------|------------------|-----------------|------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|-----------------------|-----------------------|--------------|--------------------------|-------------|
| SF 04/0400 H | 1240 | 1240 | 1600 | 4 | 1000 | 400 | 418 | 150 | 1220 | 1170 | 800 | - | 1968,0 | 157 | 178042H |
| SF 10/1000 H | 1740 | 1740 | 1800 | 10 | 1500 | 1000 | 1766 | 150 | 1420 | 1370 | 800 | - | 3388,0 | 350 | 178104H |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

1. Please check completeness of delivery. Note any missing parts or transit damage that has occurred on the delivery note immediately. Complaints that are received later will not be entertained. Otherwise our general terms and conditions apply.
2. The separator system must be installed in a location outside the washing areas where it will not overflow or back up, as close as possible to the location where the waste water occurs. It must also be in the open, frost-free and easily accessible for cleaning vehicles. The drains and pipes must be able to drain until empty.
3. The base of the excavation must be level. If no suitable soil is available, create a 10 cm thick bed of sand and fine gravel and compress. If the ground is non-load bearing, make a statically measured foundation slab. Put a 10 cm compensation layer of sand onto the foundation slab.
4. Take thickness of foundation and compensation layer into consideration during height measurements. Pay attention to height information in installation drawing.
5. The tanks must be installed in a level position.

Do not confuse the inlet with the outlet! Adhere to order of tanks! Maintain slope! Recommended total incline of system 2 - 5%!

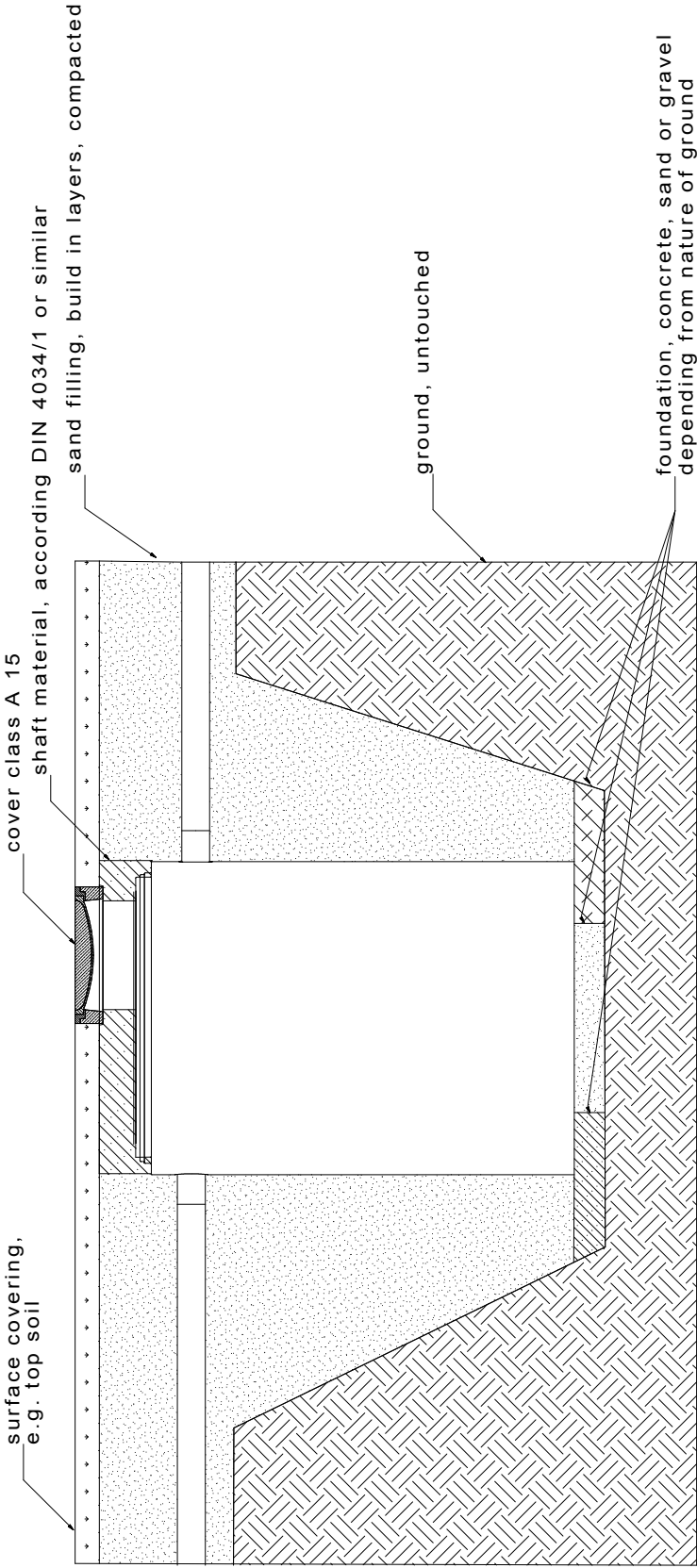
6. Install system so that top edge is higher than final admission point.

7. Manual transport on side can be done easily with steel bars which can be put through the holes of the outer stop rings.
8. Arrange maintenance shaft at outlet side such that all separator areas are accessible and the floats and the coalescence insert can be removed if necessary.
9. Ensure that the seals are correctly seated! Please use an adequate quantity of antiseize agent. It is advisable to offset the relative positions of the shaft elements in mortar or using hose bearings.
10. The distance between the individual elements should be 60 - 100 cm.
11. Ensure that pipelines are connected without leaks.
12. Fill all tanks with fresh water before filling and check for leaks. **This leak test is mandatory!**
13. Do not alter positions of tanks and lines when filling and compressing with sand. Please pay attention to the provided drawing.
14. When all tanks, covering plates, tops and covers and connecting pipes have been correctly located, **the system must be cleaned.**
15. When filling light liquid separators with fresh water, hold float in raised position until it can float independently.

Report start-up to the responsible authority. Pay attention to accident prevention regulations during installation!

INSTALLATION DRAWING

Installation drawing separator from concrete
walkable areas - loading capacity A 15

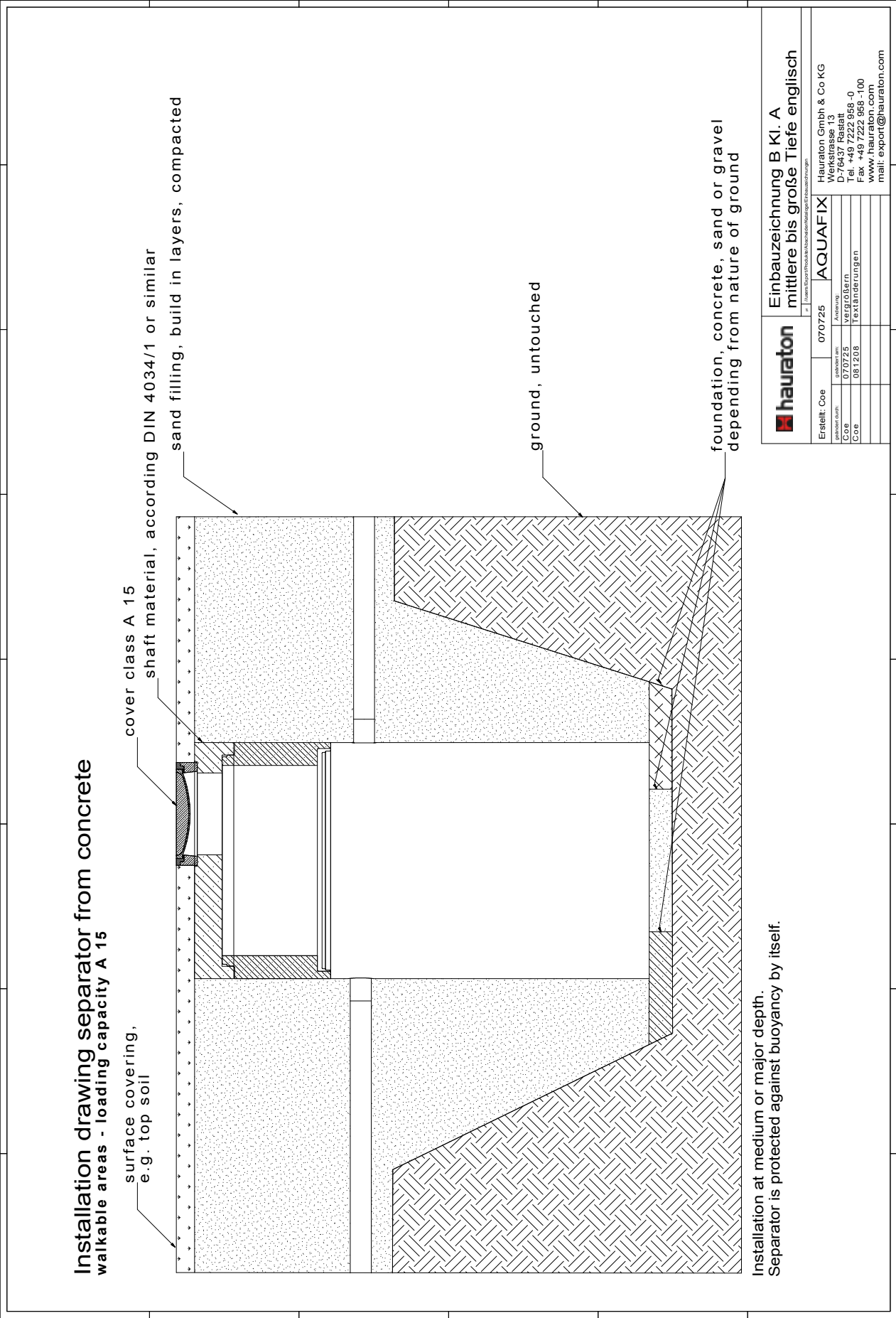


Installation at minor depth.
Separator is protected against buoyancy by itself.

hauraton Einbauzeichnung B Kl. A
geringe Tiefe englisch

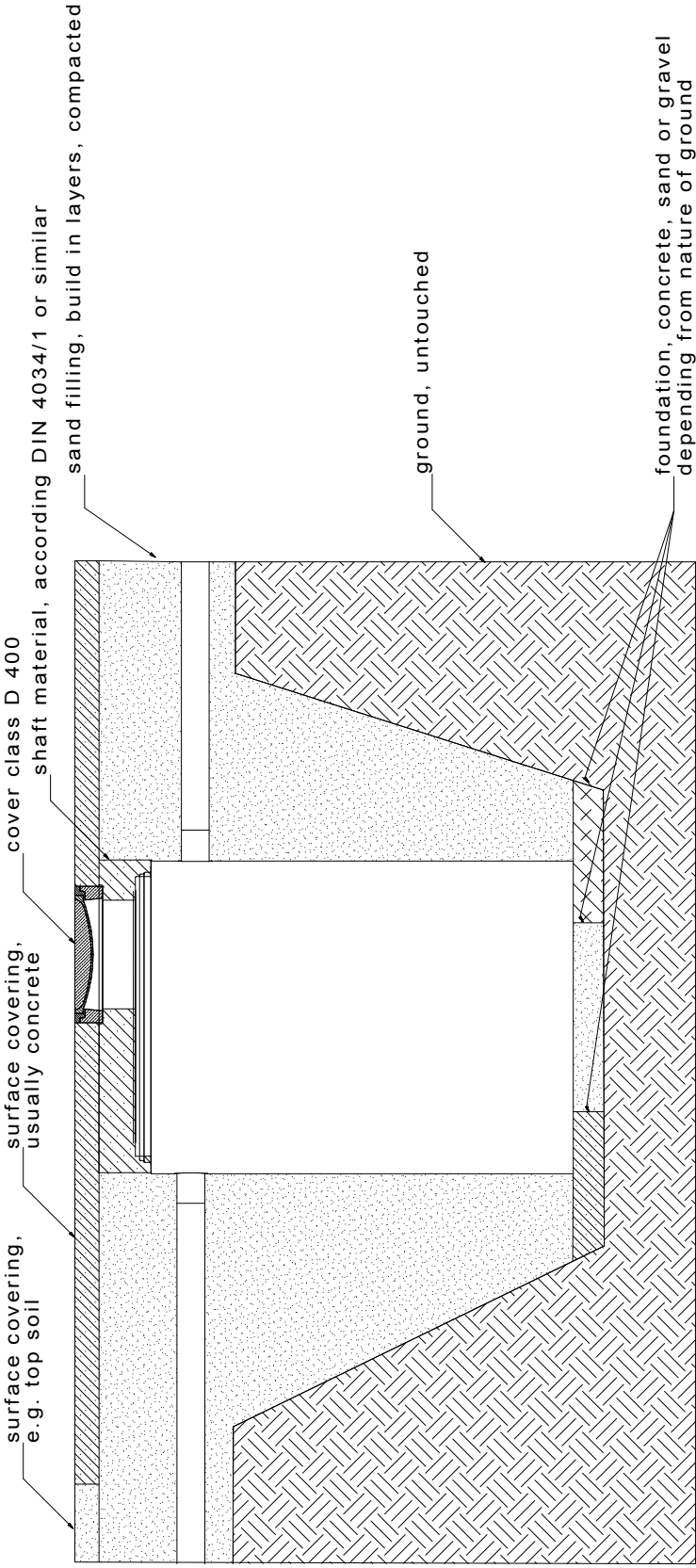
| | | | |
|---------------------------|-----------|--------------------------|---------|
| Erstellt: Coo | | 070725 | AQUAFIX |
| gezeichnet von: | Anleitung | | |
| Coo | 070725 | | |
| Coo | 081208 | | |
| Hauraton GmbH & Co KG | | Werksstrasse 13 | |
| D-70672 Stuttgart | | Tel. +49 7141 7222 958-0 | |
| Fax +49 7222 958 -100 | | www.hauraton.com | |
| mail: export@hauraton.com | | | |

INSTALLATION DRAWING



INSTALLATION DRAWING

Installation drawing separator from concrete
trafficable areas - loading capacity D 400



Installation at medium or major depth.
Separator is protected against buoyancy by itself.



Einbauzeichnung B Kl. D
geringe bis mittlere Tiefe englisch

Erstellt: Coo

gezeichnet: durti

Coo

Coo

070725

07.07.25

081208

Ausführung

vergrößern

Textänderungen

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INSTALLATION INSTRUCTIONS

| INSTALLATION INSTRUCTIONS | | | | |
|---------------------------|------------------|-------------------|--------------------|--------------------|
| AQUAFIX® „PP“ | AQUAFIX® „10 PE“ | AQUAFIX® CONCRETE | AQUAFIX® STEEL „K“ | AQUAFIX® STEEL „G“ |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

1. Clean the entire system and remove mortar residue, soil etc. Remove lock during this operation and (if separator is a coalescence separator) remove the coalescence insert and replace them again afterwards.
2. Fill sludge trap and separator with fresh water. Attention! Always hold lock in raised position when filling, or replace when filling is complete.
3. Re-check tightness of joints in the system.

□ Operation

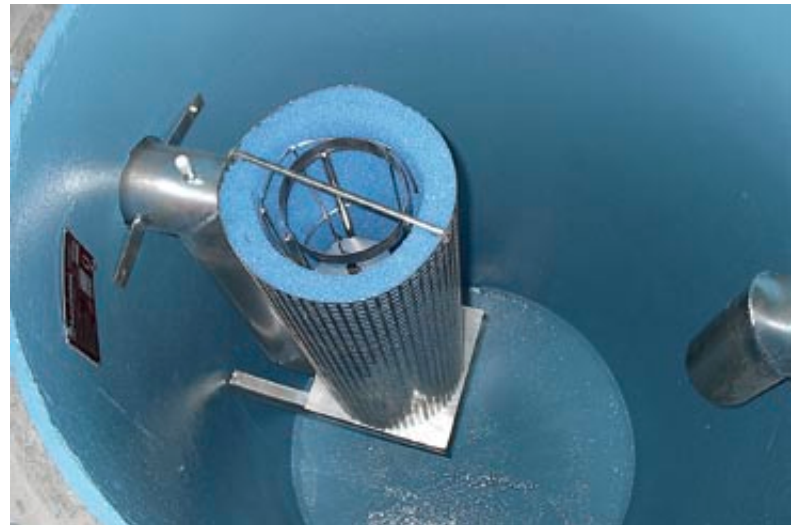
As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Emulsions and solvents (cold cleaners, drilling and cutting oils, water-soluble hydrocarbons etc.) must be kept away from the separating system and disposed off as special waste. Rainwater from surfaces for which the separating system is not intended and domestic waste water must not be led to the separating system. Do not remove coalescence insert during operation!

□ Disposal

Separating systems must be emptied at least every six months unless otherwise stipulated by the monitoring authority, but no later than when 85% of the storage capacity has been reached. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.



The separated material must only be emptied, cleaned and taken away by authorised disposal companies.

The oil layer and water beneath it must be extracted first, preferably into separate tanks. The float and the lock must be cleaned and the operation thereof checked every time the equipment is emptied. Remove coalescence insert, clean the sludge trap, give damaged coalescence material to the disposal company and replace with new material. Re-insert the coalescence insert.

Every time that the equipment is emptied and cleaned, refill system with fresh water. Hold lock open by hand when doing this or insert it again afterwards. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand.

□ Servicing

The separator system must be serviced at least every 6 months. The system may need to be emptied to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill separator and sludge trap with fresh water, Hold lock open by hand or insert afterwards. **Pay attention to accident prevention regulations!**

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

Clean the entire system and remove mortar residue, soil etc. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Particularly domestic waste water and mineral light liquids must be kept away from the separating system, nor must rainwater be led to the separating system.

□ Disposal

1. The separating systems must be cleaned at least every 14 days more frequently if necessary. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.
2. The separated material must only be emptied, cleaned and taken away by authorised disposal companies.
3. Every time that the equipment is emptied and cleaned, refill system with fresh water.
4. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

□ Servicing

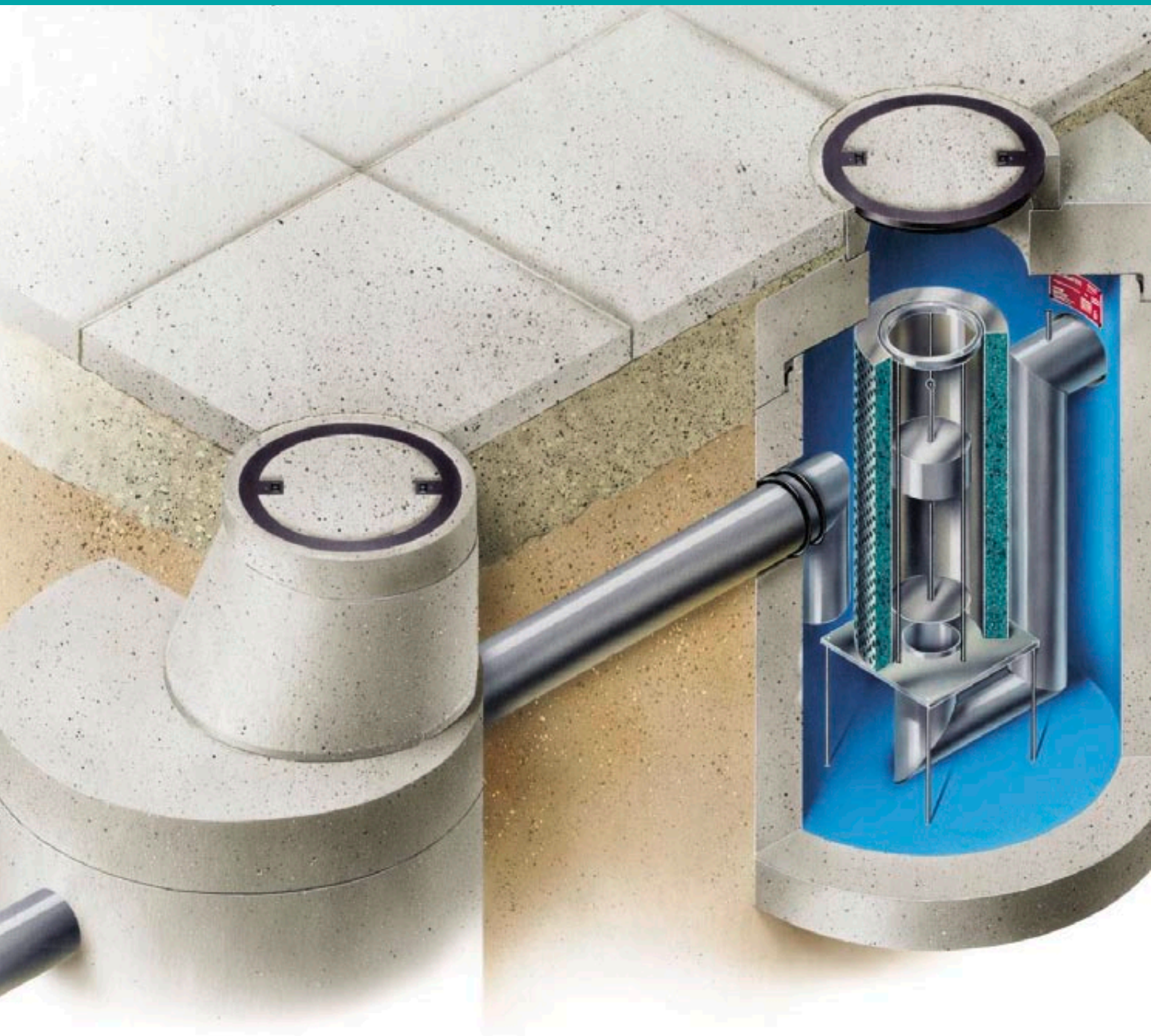
The separator system must be serviced at least every 14 days. The system must be emptied and cleaned to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill the system with fresh water. Pay attention to accident prevention regulations!



AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.





AT A GLANCE:

- ✓ High quality concrete
- ✓ Strong wall thickness
- ✓ Conforms to standards - even down to the details

AQUAFIX® SEPARATORS

SERIES MADE OF CONCRETE

SOLID CONSTRUCTIONS FOR HEAVY DUTY.

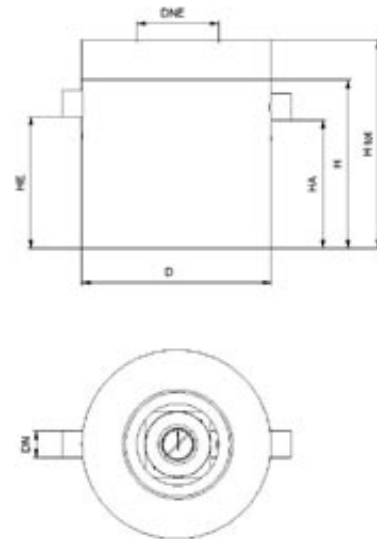
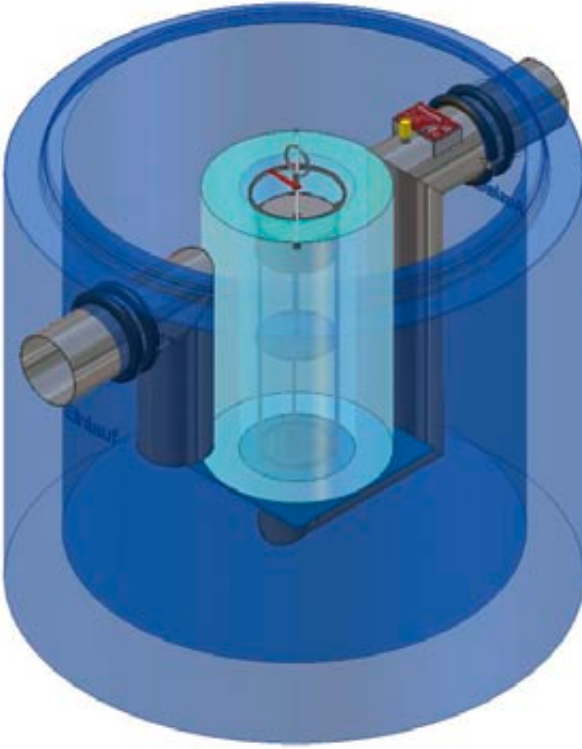
FEATURES

- high grade reinforced concrete C35/45 in accordance with Eurocode EC 206, DIN 1045 and 4281, wall thickness at least 120 mm
- coating consisting of three layers of epoxy resin resistant to light liquids and fatty acids
- conform to European standards EN 858 and 1825



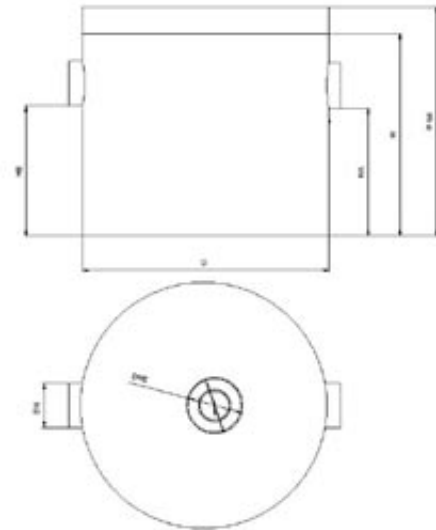
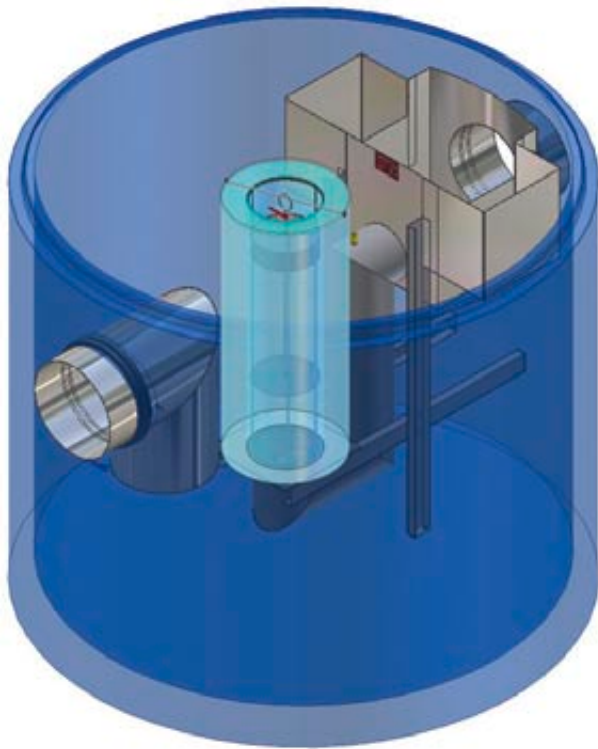
AQUAFIX® Separators from concrete - Series C

AQUAFIX® - K Coalescence separator



| | Length mm | Width mm | Height mm | max. ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight mm | storage capa- city l | Item No. |
|------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| K 10 | 1240 | 1240 | 1315 | 10 | 1000 | - | 530 | 150 | 845 | 820 | 625 | - | 1500,0 | 162 | 103100C |
| K 15 | 1240 | 1240 | 1515 | 15 | 1000 | - | 930 | 200 | 1000 | 975 | 625 | - | 1700,0 | 246 | 103150C |
| K 20 | 1840 | 1840 | 1565 | 20 | 1600 | - | 1450 | 200 | 1000 | 975 | 625 | - | 2650,0 | 332 | 103200C |
| K 30 | 2340 | 2340 | 1865 | 30 | 2100 | - | 3220 | 250 | 1200 | 1175 | 800 | - | 5000,0 | 628 | 103300C |
| K 40 | 2740 | 2740 | 2320 | 40 | 2500 | - | 7480 | 250 | 1675 | 1650 | 800 | - | 6800,0 | 996 | 103400C |
| K 50 | 2740 | 2740 | 2520 | 50 | 2500 | - | 8460 | 250 | 1900 | 1875 | 800 | - | 7300,0 | 986 | 103500C |

AQUAFIX® - K2BP Coalescence separator with double-bypass



| | Length mm | Width mm | Height mm | max. Flow l/s | Seperator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight mm | storage capa- city l | Item No. |
|---------|--------------|-------------|--------------|------------------|-----------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| K2BP 20 | 2740 | 2740 | 2320 | 200 | 2500 | - | 5449 | 400 | 1300 | 1275 | 625 | - | 6800,0 | 1227 | 174020C |
| K2BP 40 | 2740 | 2740 | 2520 | 400 | 2500 | - | 6185 | 500 | 1450 | 1425 | 625 | - | 7300,0 | 1227 | 174040C |
| K2BP 60 | 2740 | 2740 | 2820 | 600 | 2500 | - | 6921 | 600 | 1600 | 1575 | 625 | - | 7750,0 | 1227 | 174060C |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

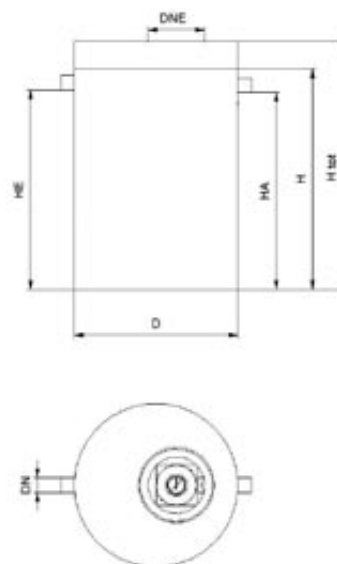
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

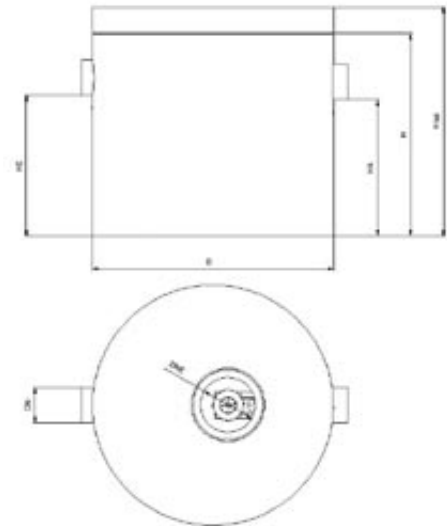
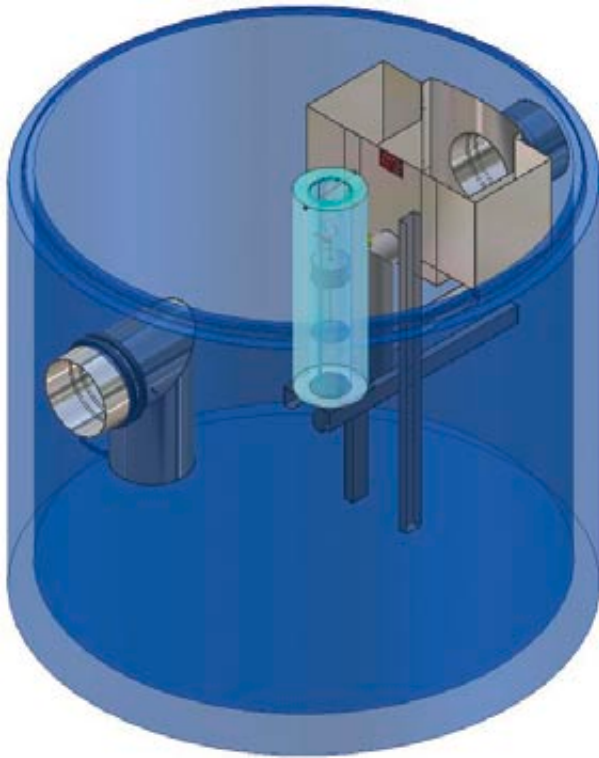
AQUAFIX® Separators from concrete - Series C

AQUAFIX® - SK Coalescence separator with sludge trap



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight mm | storage capa- city l | Item No. |
|-------------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SK 04/0650 H | 1240 | 1240 | 2115 | 4 | 1000 | 650 | 575 | 150 | 1750 | 1725 | 625 | - | 2300,0 | 157 | 176043C |
| SK 06-10/2500 H | 1840 | 1840 | 2665 | 10 | 1600 | 2385 | 1166 | 150 | 2200 | 2175 | 625 | - | 4200,0 | 353 | 176105C |
| SK 06-10/5000 AIO | 2740 | 2740 | 2420 | 10 | 2500 | 4906 | 3557 | 150 | 1895 | 1870 | 625 | - | 7050,0 | 1011 | 176107C |
| SK15/3000 AIO | 2740 | 2740 | 2420 | 15 | 2500 | 2944 | 5029 | 200 | 1875 | 1800 | 625 | - | 7050,0 | 1011 | 176155C |
| SK 15/5000 AIO | 2740 | 2740 | 2720 | 15 | 2500 | 4906 | 4538 | 200 | 2125 | 2100 | 625 | - | 7750,0 | 1011 | 176157C |
| SK 20/4000 AIO | 2740 | 2740 | 2720 | 20 | 2500 | 3925 | 5520 | 200 | 2125 | 2100 | 625 | - | 7750,0 | 1070 | 176204C |
| SK 30/3000 AIO | 2740 | 2740 | 2420 | 30 | 2500 | 2944 | 5029 | 250 | 1800 | 1775 | 800 | - | 7050,0 | 1079 | 176305C |
| SK 40/4000 AIO | 2740 | 2740 | 2920 | 40 | 2500 | 3925 | 6746 | 250 | 2350 | 2325 | 800 | - | 8250,0 | 1104 | 176406C |
| SK 50/3000 AIO | 2740 | 2740 | 2920 | 50 | 2500 | 2944 | 7727 | 250 | 2350 | 2325 | 800 | - | 8250,0 | 1128 | 176505C |

AQUAFIX® - SK2BP Coalescence separator with sludge trap and double-bypass



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight mm | storage capa- city l | Item No. |
|---------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SK2BP 10/1000 | 2740 | 2740 | 2620 | 100 | 2500 | 3313 | 3595 | 400 | 1600 | 1550 | 625 | - | 7300,0 | 1011 | 175010C |
| SK2BP 15/1500 | 2740 | 2740 | 2820 | 150 | 2500 | 3313 | 4541 | 400 | 1800 | 1750 | 625 | - | 7750,0 | 1227 | 175015C |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

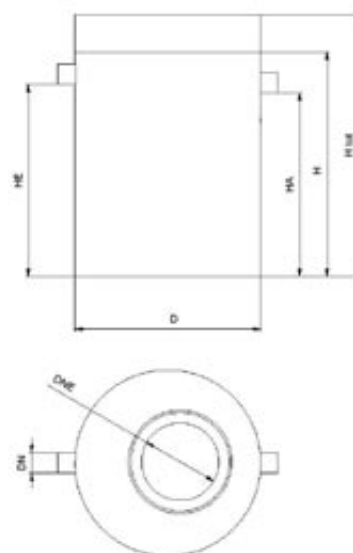
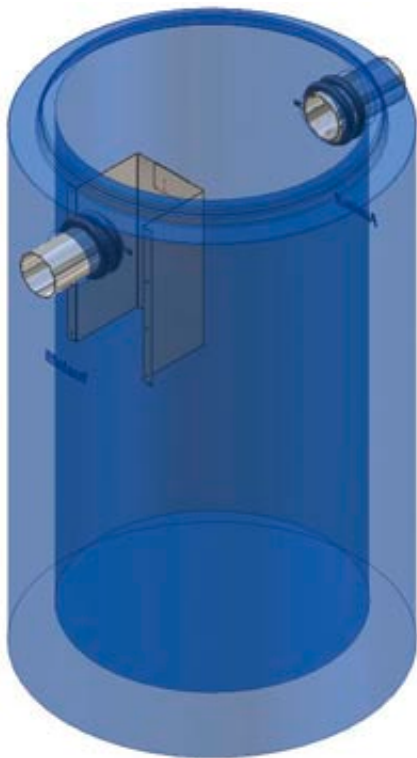
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from concrete - Series C

AQUAFIX® - S Sludge trap



| | Length mm | Width mm | Height mm | max. \varnothing Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outlet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight mm | storage capa- city l | Item No. |
|------------|--------------|-------------|--------------|-----------------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| S 0650/03 | 1240 | 1240 | 1715 | - | 1000 | 650 | - | 100 | 1275 | 1225 | 625 | - | 1900,0 | - | 101043C |
| S 1300/03 | 1840 | 1840 | 1165 | - | 1600 | 1300 | - | 100 | 1350 | 1300 | 625 | - | 2300,0 | - | 101064C |
| S 10/02500 | 1840 | 1840 | 1865 | - | 1600 | 2500 | - | 150 | 1650 | 1625 | 625 | - | 3400,0 | - | 101105C |
| S 3500/10 | 1840 | 1840 | 2365 | - | 1600 | 3500 | - | 150 | 1200 | 1150 | 625 | - | 4200,0 | - | 101106C |
| S 5000/10 | 2340 | 2340 | 1965 | - | 2100 | 5000 | - | 150 | 1700 | 1650 | 625 | - | 4900,0 | - | 101107C |
| S 7500/10 | 2740 | 2740 | 2320 | - | 2500 | 7500 | - | 150 | 1870 | 1820 | 625 | - | 6750,0 | - | 101108C |
| S 10000/10 | 2740 | 2740 | 2920 | - | 2500 | 10000 | - | 150 | 2500 | 2450 | 625 | - | 7250,0 | - | 101109C |
| S 20/02500 | 1840 | 1840 | 1865 | - | 1600 | 2500 | - | 200 | 1600 | 1575 | 625 | - | 7700,0 | - | 101205C |
| S 5000/20 | 2340 | 2340 | 1965 | - | 2100 | 5000 | - | 200 | 1650 | 1600 | 625 | - | 4900,0 | - | 101207C |
| S 8000/20 | 2740 | 2740 | 2520 | - | 2500 | 8000 | - | 200 | 1900 | 1850 | 625 | - | 6750,0 | - | 101208C |
| S 10000/20 | 2740 | 2740 | 2920 | - | 2500 | 10000 | - | 200 | 2400 | 2350 | 625 | - | 7250,0 | - | 101209C |
| S 5000/30 | 2340 | 2340 | 1965 | - | 2100 | 5000 | - | 250 | 1600 | 1550 | 625 | - | 4900,0 | - | 101307C |
| S 7500/30 | 2740 | 2740 | 2320 | - | 2500 | 7500 | - | 250 | 1770 | 1720 | 625 | - | 6750,0 | - | 101308C |
| S 10000/30 | 2740 | 2740 | 2920 | - | 2500 | 10000 | - | 250 | 2400 | 2350 | 625 | - | 7250,0 | - | 101309C |

| | | | | | | |
|--|--|--|--|--|---------------------------|--|
| | | | | | AQUAFIX® STEEL „G“ | |
| | | | | | AQUAFIX® STEEL „K“ | |
| | | | | | AQUAFIX® CONCRETE | |
| | | | | | AQUAFIX® „10 PE“ | |
| | | | | | AQUAFIX® „PP“ | |
| | | | | | INSTALLATION INSTRUCTIONS | |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

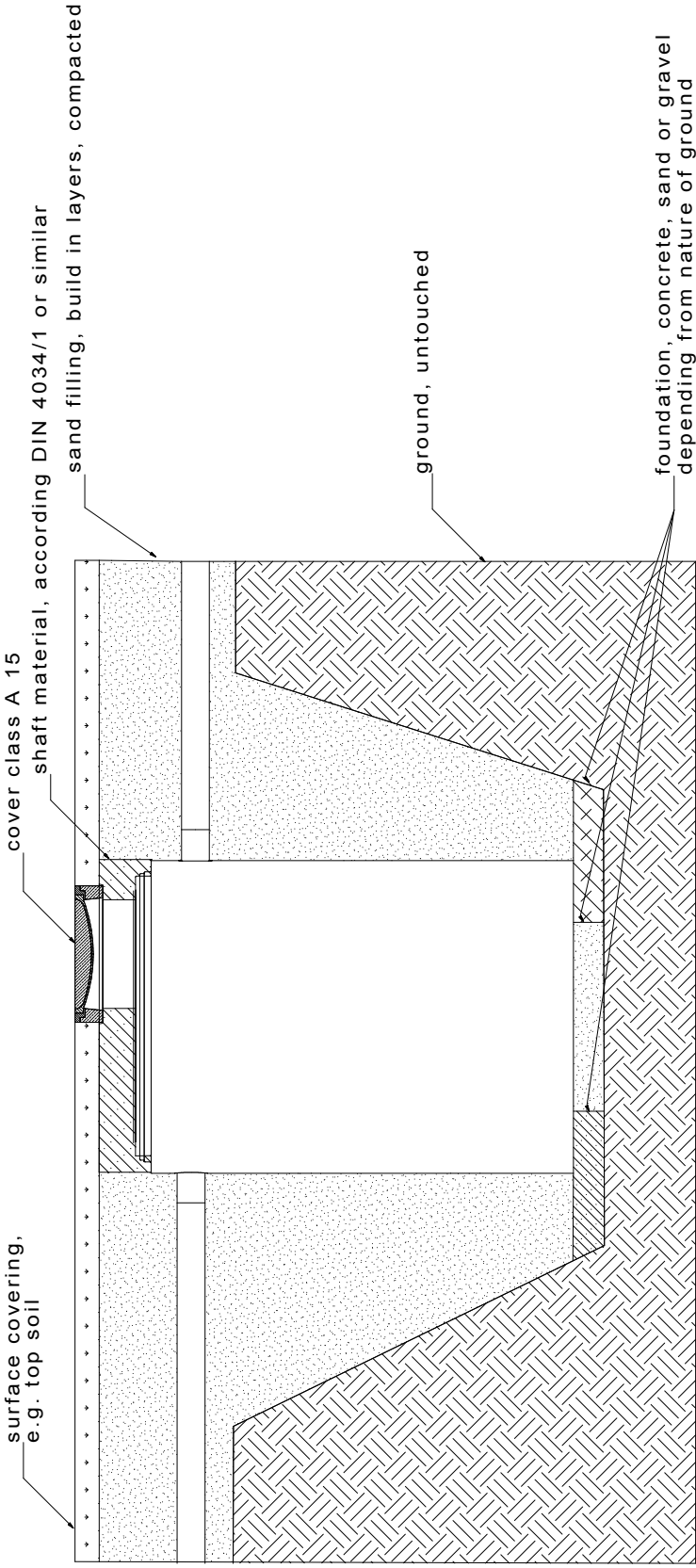
1. Please check completeness of delivery. Note any missing parts or transit damage that has occurred on the delivery note immediately. Complaints that are received later will not be entertained. Otherwise our general terms and conditions apply.
2. The separator system must be installed in a location outside the washing areas where it will not overflow or back up, as close as possible to the location where the waste water occurs. It must also be in the open, frost-free and easily accessible for cleaning vehicles. The drains and pipes must be able to drain until empty.
3. The base of the excavation must be level. If no suitable soil is available, create a 10 cm thick bed of sand and fine gravel and compress. If the ground is non-load bearing, make a statically measured foundation slab. Put a 10 cm compensation layer of sand onto the foundation slab.
4. Take thickness of foundation and compensation layer into consideration during height measurements. Pay attention to height information in installation drawing.
5. The tanks must be installed in a level position.
6. Install system so that top edge is higher than final admission point.
7. Manual transport on side can be done easily with steel bars which can be put through the holes of the outer stop rings.
8. Arrange maintenance shaft at outlet side such that all separator areas are accessible and the floats and the coalescence insert can be removed if necessary.
9. Ensure that the seals are correctly seated! Please use an adequate quantity of antiseize agent. It is advisable to offset the relative positions of the shaft elements in mortar or using hose bearings.
10. The distance between the individual elements should be 60 - 100 cm.
11. Ensure that pipelines are connected without leaks.
12. Fill all tanks with fresh water before filling and check for leaks. **This leak test is mandatory!**
13. Do not alter positions of tanks and lines when filling and compressing with sand. Please pay attention to the provided drawing.
14. When all tanks, covering plates, tops and covers and connecting pipes have been correctly located, **the system must be cleaned.**
15. When filling light liquid separators with fresh water, hold float in raised position until it can float independently.

Do not confuse the inlet with the outlet! Adhere to order of tanks! Maintain slope! Recommended total incline of system 2 - 5%!

Report start-up to the responsible authority. Pay attention to accident prevention regulations during installation!

INSTALLATION DRAWING

Installation drawing separator from concrete
walkable areas - loading capacity A 15



Installation at minor depth.
Separator is protected against buoyancy by itself.

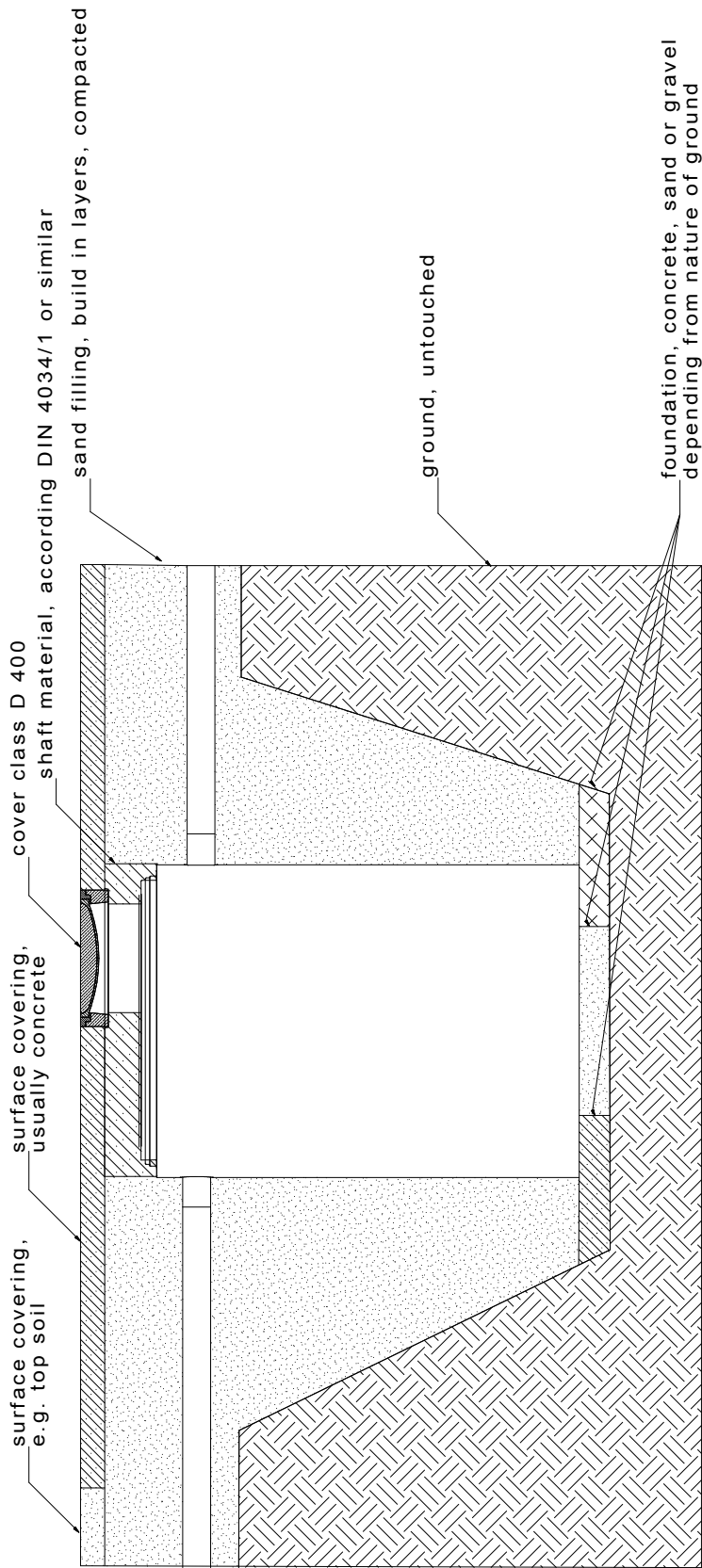
hauraton Einbauezeichnung B Kl. A
geringe Tiefe englisch

| | | | | | |
|-----------------|----------------|--------|----------------|---------------------------|--|
| Erstellt: Coo | | 070725 | AQUAFIX | Hauraton GmbH & Co KG | |
| gezeichnet von: | gezeichnet am: | 070725 | Vergrößern | Werkstrasse 13 | |
| Coo | Coo | 081208 | Textänderungen | 49700 Hauraton | |
| | | | | Tele +49 7222 958 -0 | |
| | | | | Fax +49 7222 958 -100 | |
| | | | | www.hauraton.com | |
| | | | | mail: export@hauraton.com | |


www.hauraton.com
mail: exnort@hauraton.com

INSTALLATION DRAWING

Installation drawing separator from concrete trafficable areas - loading capacity D 400



Installation at medium or major depth.
Separator is protected against buoyancy by itself.

| | | | |
|---|---|-------------|--|
|  | Einbauzeichnung B Kl. D | | Hauraton GmbH & Co KG Wensirasstrasse 13 D-76437 Rastatt Tel. +49 7222 958-0 Fax +49 7222 958-100 www.hauraton.com mail: export@hauraton.com |
| | geringe bis mittlere Tiefe englisch | | |
| | <small>as</small> <small>1</small> <small>2</small> <small>3</small> <small>4</small> <small>5</small> <small>6</small> <small>7</small> <small>8</small> <small>9</small> <small>10</small> <small>11</small> <small>12</small> <small>13</small> <small>14</small> <small>15</small> <small>16</small> <small>17</small> <small>18</small> <small>19</small> <small>20</small> <small>21</small> <small>22</small> <small>23</small> <small>24</small> <small>25</small> <small>26</small> <small>27</small> <small>28</small> <small>29</small> <small>30</small> <small>31</small> <small>32</small> <small>33</small> <small>34</small> <small>35</small> <small>36</small> <small>37</small> <small>38</small> <small>39</small> <small>40</small> <small>41</small> <small>42</small> <small>43</small> <small>44</small> <small>45</small> <small>46</small> <small>47</small> <small>48</small> <small>49</small> <small>50</small> <small>51</small> <small>52</small> <small>53</small> <small>54</small> <small>55</small> <small>56</small> <small>57</small> <small>58</small> <small>59</small> <small>60</small> <small>61</small> <small>62</small> <small>63</small> <small>64</small> <small>65</small> <small>66</small> <small>67</small> <small>68</small> <small>69</small> <small>70</small> <small>71</small> <small>72</small> <small>73</small> <small>74</small> <small>75</small> <small>76</small> <small>77</small> <small>78</small> <small>79</small> <small>80</small> <small>81</small> <small>82</small> <small>83</small> <small>84</small> <small>85</small> <small>86</small> <small>87</small> <small>88</small> <small>89</small> <small>90</small> <small>91</small> <small>92</small> <small>93</small> <small>94</small> <small>95</small> <small>96</small> <small>97</small> <small>98</small> <small>99</small> <small>100</small> | | |
| | <small>101</small> <small>102</small> <small>103</small> <small>104</small> <small>105</small> <small>106</small> <small>107</small> <small>108</small> <small>109</small> <small>110</small> <small>111</small> <small>112</small> <small>113</small> <small>114</small> <small>115</small> <small>116</small> <small>117</small> <small>118</small> <small>119</small> <small>120</small> <small>121</small> <small>122</small> <small>123</small> <small>124</small> <small>125</small> <small>126</small> <small>127</small> <small>128</small> <small>129</small> <small>130</small> <small>131</small> <small>132</small> <small>133</small> <small>134</small> <small>135</small> <small>136</small> <small>137</small> <small>138</small> <small>139</small> <small>140</small> <small>141</small> <small>142</small> <small>143</small> <small>144</small> <small>145</small> <small>146</small> <small>147</small> <small>148</small> <small>149</small> <small>150</small> <small>151</small> <small>152</small> <small>153</small> <small>154</small> <small>155</small> <small>156</small> <small>157</small> <small>158</small> <small>159</small> <small>160</small> <small>161</small> <small>162</small> <small>163</small> <small>164</small> <small>165</small> <small>166</small> <small>167</small> <small>168</small> <small>169</small> <small>170</small> <small>171</small> <small>172</small> <small>173</small> <small>174</small> <small>175</small> <small>176</small> <small>177</small> <small>178</small> <small>179</small> <small>180</small> <small>181</small> <small>182</small> <small>183</small> <small>184</small> <small>185</small> <small>186</small> <small>187</small> <small>188</small> <small>189</small> <small>190</small> <small>191</small> <small>192</small> <small>193</small> <small>194</small> <small>195</small> <small>196</small> <small>197</small> <small>198</small> <small>199</small> <small>200</small> | | |
| Erstellte: Coo | 070725 | AQUAFIX | |
| gezeichnet durch: | | Anzeichnung | |
| Coo | 07.07.25 | vergrößert | |
| Coo | 08.12.08 | Verändert | |
| | | | |
| | | | |
| | | | |

mail: export@hauraton.co

INSTALLATION INSTRUCTIONS

| INSTALLATION INSTRUCTIONS | | | | |
|---------------------------|------------------|-------------------|--------------------|--------------------|
| AQUAFIX® „PP“ | AQUAFIX® „10 PE“ | AQUAFIX® CONCRETE | AQUAFIX® STEEL „K“ | AQUAFIX® STEEL „G“ |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

1. Clean the entire system and remove mortar residue, soil etc. Remove lock during this operation and (if separator is a coalescence separator) remove the coalescence insert and replace them again afterwards.
2. Fill sludge trap and separator with fresh water. Attention! Always hold lock in raised position when filling, or replace when filling is complete.
3. Re-check tightness of joints in the system.

□ Operation

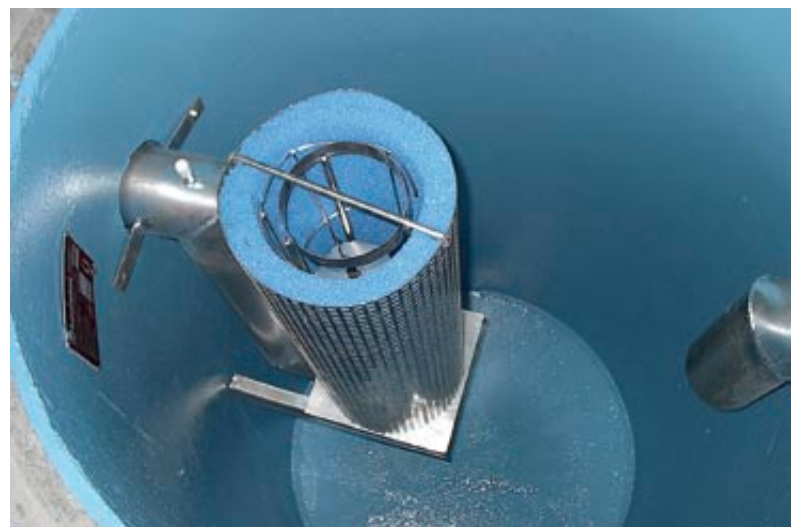
As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Emulsions and solvents (cold cleaners, drilling and cutting oils, water-soluble hydrocarbons etc.) must be kept away from the separating system and disposed off as special waste. Rainwater from surfaces for which the separating system is not intended and domestic waste water must not be led to the separating system. Do not remove coalescence insert during operation!

□ Disposal

Separating systems must be emptied at least every six months unless otherwise stipulated by the monitoring authority, but no later than when 85% of the storage capacity has been reached. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.



The separated material must only be emptied, cleaned and taken away by authorised disposal companies.

The oil layer and water beneath it must be extracted first, preferably into separate tanks. The float and the lock must be cleaned and the operation thereof checked every time the equipment is emptied. Remove coalescence insert, clean the sludge trap, give damaged coalescence material to the disposal company and replace with new material. Re-insert the coalescence insert.

Every time that the equipment is emptied and cleaned, refill system with fresh water. Hold lock open by hand when doing this or insert it again afterwards. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand.

□ Servicing

The separator system must be serviced at least every 6 months. The system may need to be emptied to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill separator and sludge trap with fresh water, Hold lock open by hand or insert afterwards. **Pay attention to accident prevention regulations!**

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES MADE OF CONCRETE (H/P/C)

□ Before start-up

Clean the entire system and remove mortar residue, soil etc. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following regulations must be observed for the entire system:

- DIN 1986 (Land drainage systems)
- DIN 1999 (Light liquid separating systems)
- EN 858 (Light liquid separating systems)
- Local drainage statutes and other regulations

Only waste water that does not affect the intended operation of the separator must be led to the separating system. Particularly domestic waste water and mineral light liquids must be kept away from the separating system, nor must rainwater be led to the separating system.

□ Disposal

1. The separating systems must be cleaned at least every 14 days more frequently if necessary. The cleaning intervals must be shorter if the storage capacity of the separator or the sludge trap is exceeded. The operation of the equipment must not be interrupted.
2. The separated material must only be emptied, cleaned and taken away by authorised disposal companies.
3. Every time that the equipment is emptied and cleaned, refill system with fresh water.
4. Use mobile ladders when climbing into the system. Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

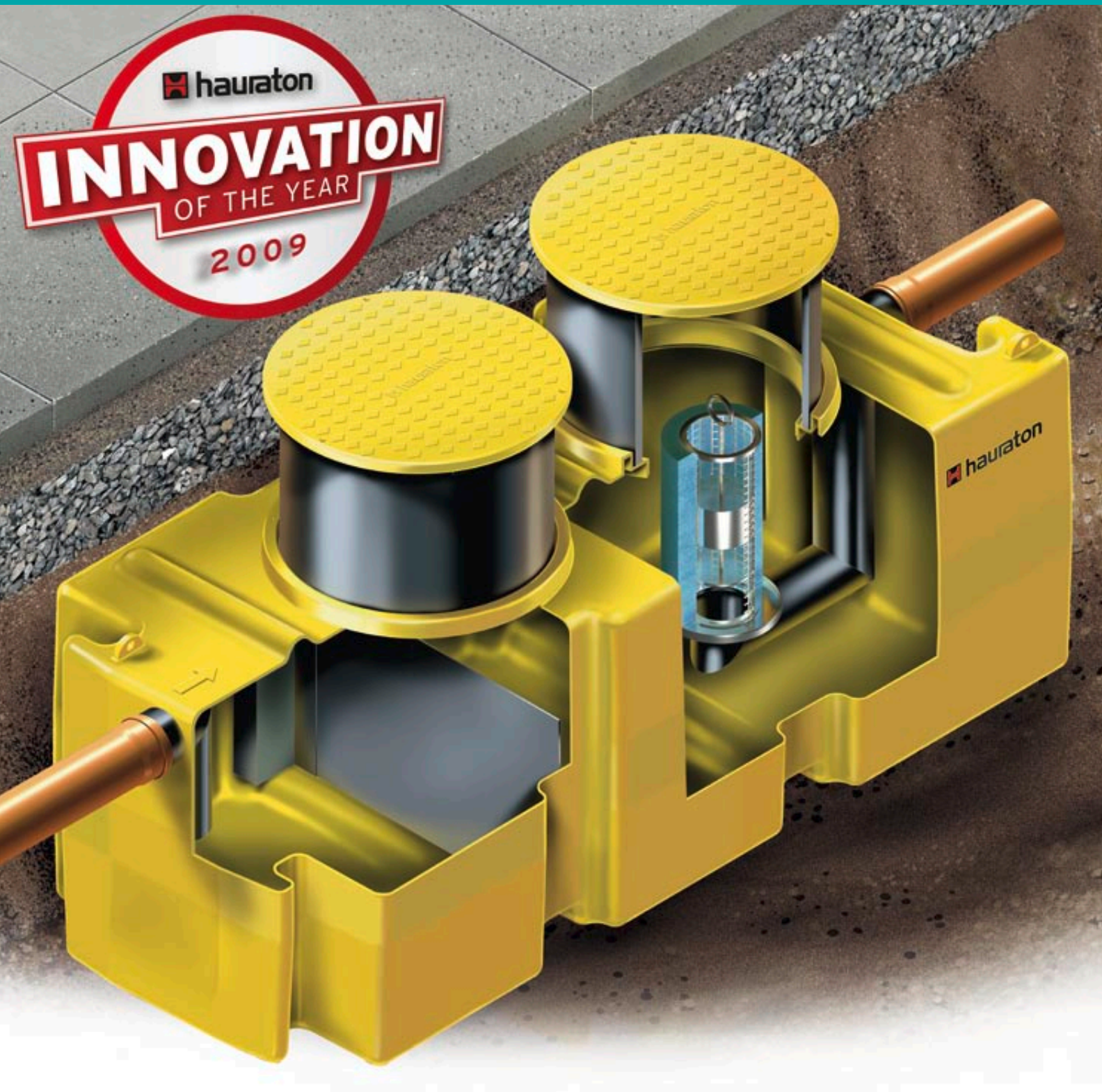
□ Servicing

The separator system must be serviced at least every 14 days. The system must be emptied and cleaned to do this. Carefully check operation of all parts of the system and inspect for damage. Then fill the system with fresh water. Pay attention to accident prevention regulations!



AQUAFIX® SEPARATORS

SERIES „10 PE“ MADE OF POLYETHYLENE
LIGHT SOLUTIONS FOR STRONG REQUIREMENTS.



The background of the advertisement is a photograph of a person in a dark suit refueling a red sports car. The person's hand is on the car's roof, and another hand is holding a blue fuel nozzle inserted into the car's fuel tank. The car is a vibrant red, and the scene is set against a bright, slightly blurred background.

AT A GLANCE:

- ✓ 10 mm wall thickness for highest security
- ✓ optimised construction after FE-analysis
- ✓ pure, high quality raw material is used in the optimised production process

AQUAFIX® SEPARATORS

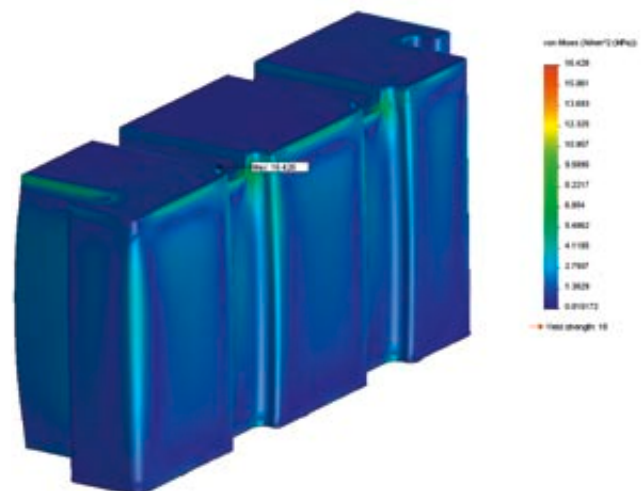
SERIES „10 PE“ MADE OF POLYETHYLENE
LIGHT SOLUTIONS FOR STRONG REQUIREMENTS.

FEATURES

- 10 mm wall thickness
- stop rings to handle
- computer aided design
- according standards EN 858 or EN 1825
- wide openings
- for light liquid separators:
 - automatic closing device easy to remove
 - coalescence cell easy to remove
 - sample taking device can be integrated

EXTENSIONS

Extension pipes in every length can be supplied.
Covers in class A or D available.

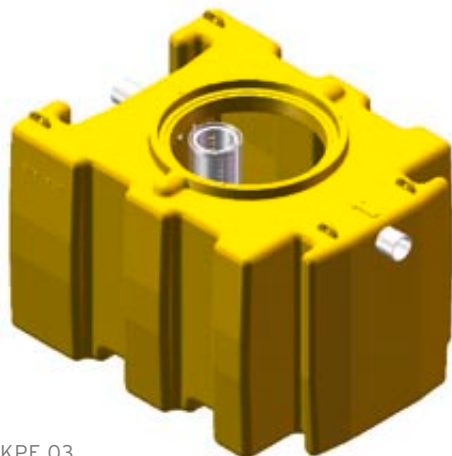


The construction of AQUAFIX 10 PE separators was done according detailed FE analysis. The combination of high quality material, optimised production process and at least 10 mm wall thickness quarantuees highest stability.

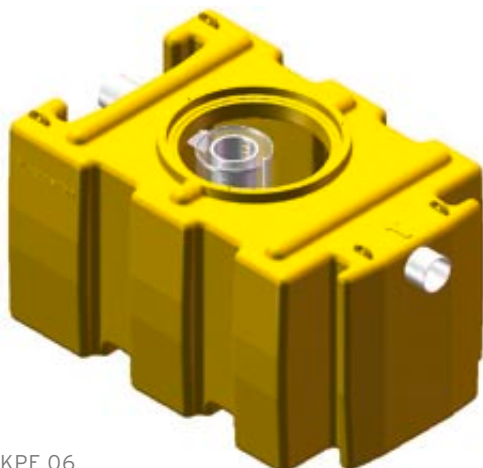
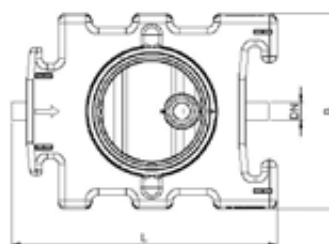
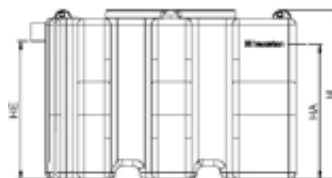


AQUAFIX® Separators from Polyethylene - Series P

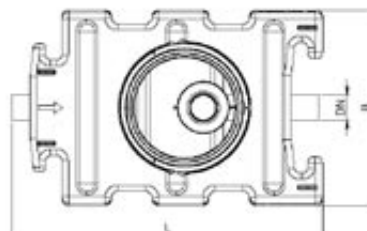
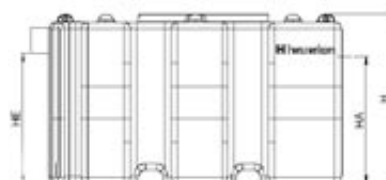
AQUAFIX®10 PE - KPE Coalescence separator



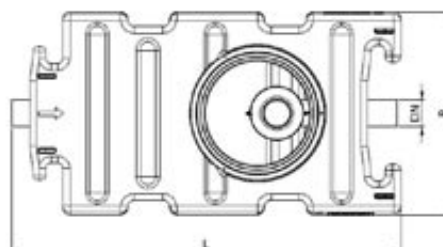
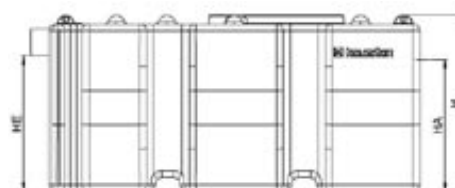
KPE 03



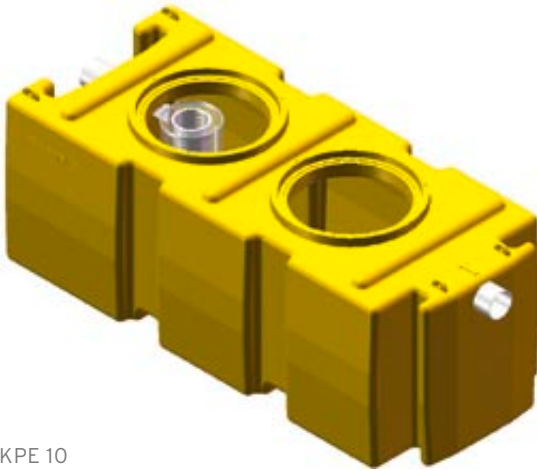
KPE 06



KPE 08



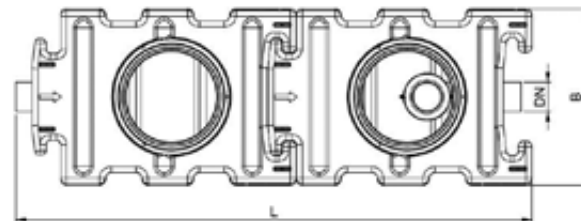
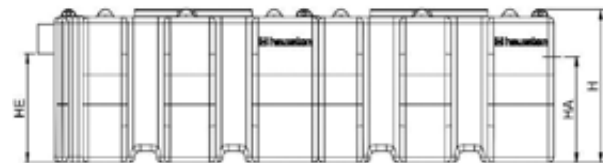
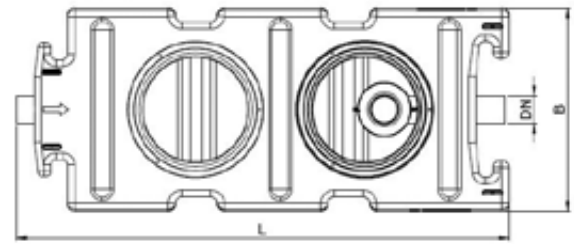
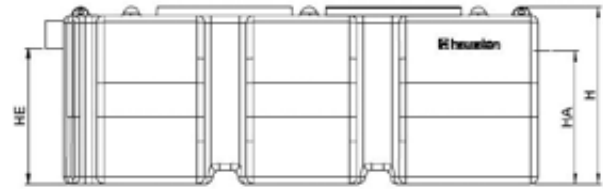
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|--------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| KPE 03 | 1635 | 1200 | 1040 | 3 | - | - |
| KPE 06 | 1810 | 1200 | 1040 | 6 | - | - |
| KPE 08 | 2310 | 1200 | 1040 | 8 | - | - |
| KPE 10 | 2910 | 1200 | 1040 | 10 | - | - |
| KPE 15 | 3515 | 1200 | 1040 | 15 | - | - |



KPE 10



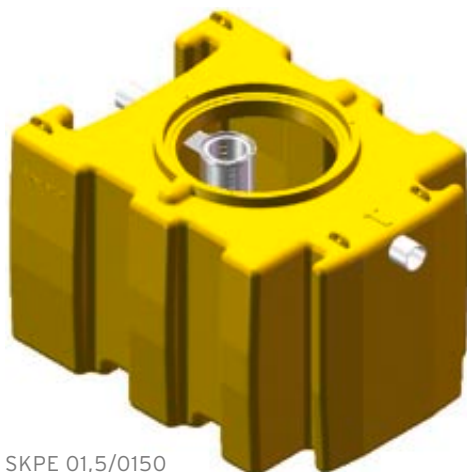
KPE 15



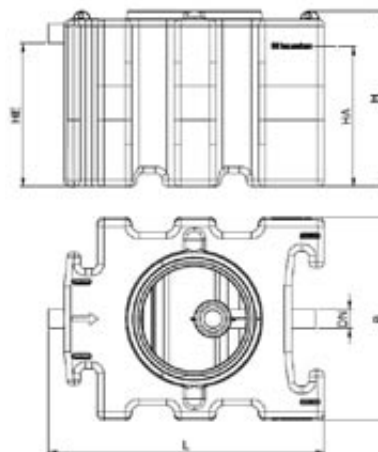
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1270 | 110 | 850 | 830 | 700 | - | 107,0 | 153 | 83503P |
| 1435 | 160 | 800 | 780 | 700 | - | 149,0 | 184 | 83506P |
| 1810 | 160 | 800 | 780 | 700 | - | 167,0 | 232 | 83508P |
| 2371 | 160 | 800 | 780 | 700 | 700 | 182,0 | 304 | 83510P |
| 2650 | 200 | 740 | 720 | 700 | 700 | 241,0 | 368 | 83515P |

AQUAFIX® Separators from Polyethylene - Series P

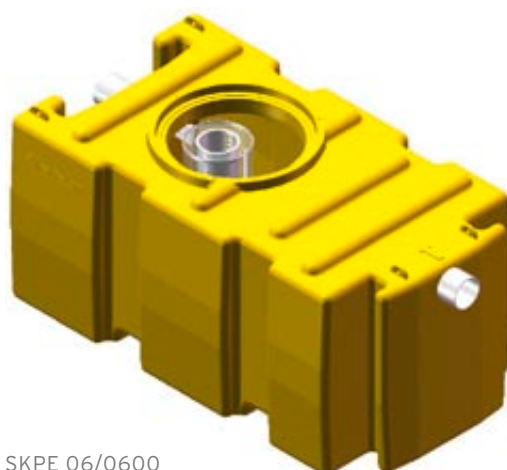
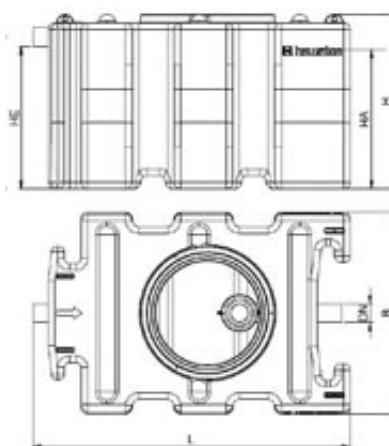
AQUAFIX®10 PE - SKPE Coalescence separator with sludge trap



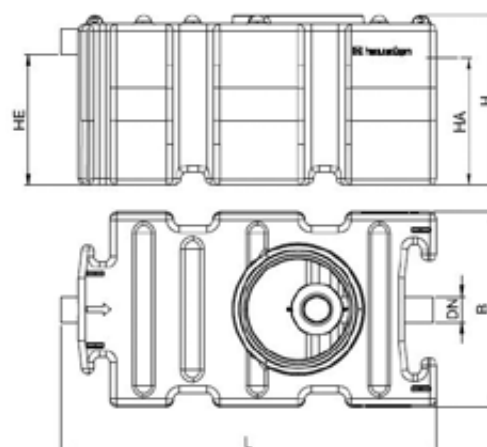
SKPE 01,5/0150



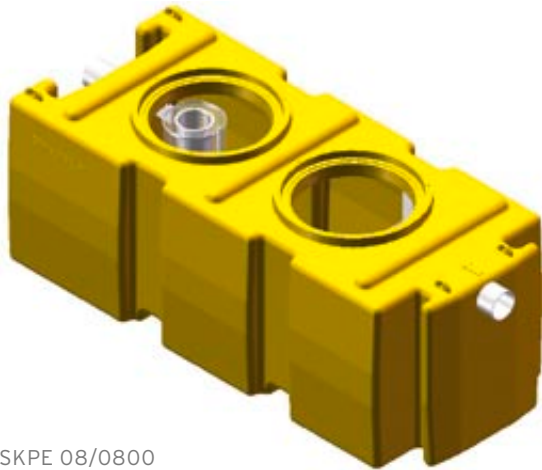
SKPE 03/0300



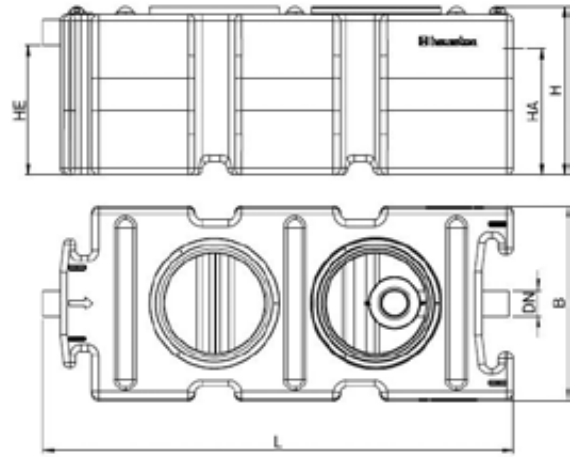
SKPE 06/0600



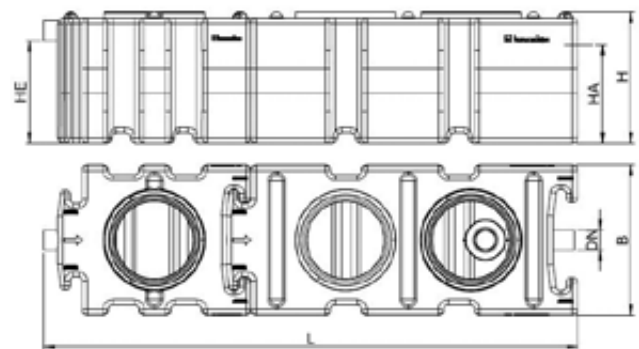
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|----------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKPE 01,5/0150 | 1635 | 1200 | 1040 | 1 | - | 150 |
| SKPE 03/0300 | 1910 | 1200 | 1040 | 3 | - | 300 |
| SKPE 06/0600 | 2310 | 1200 | 1040 | 6 | - | 600 |
| SKPE 08/0800 | 2910 | 1200 | 1040 | 8 | - | 800 |
| SKPE 10/1000 | 4255 | 1200 | 1040 | 10 | - | 1000 |
| SKPE 15/1500 | 4915 | 1200 | 1040 | 15 | - | 1500 |



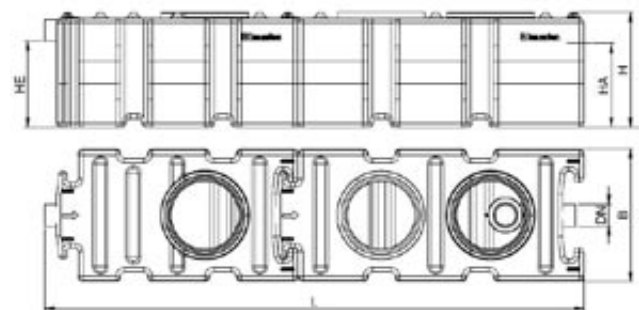
SKPE 08/0800



SKPE 10/1000



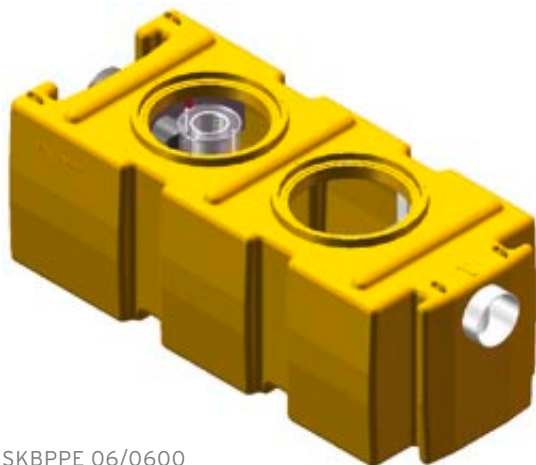
SKPE 15/1500



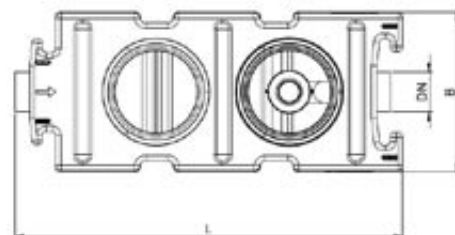
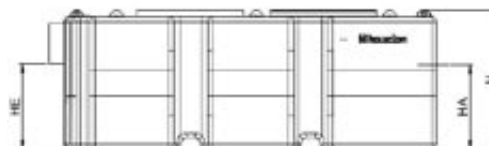
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1120 | 110 | 850 | 830 | 700 | - | 116,0 | 153 | 84001P |
| 1227 | 110 | 850 | 830 | 700 | - | 128,0 | 184 | 84003P |
| 1210 | 160 | 800 | 780 | 700 | - | 176,0 | 232 | 84006P |
| 1571 | 160 | 800 | 780 | 700 | 700 | 188,0 | 304 | 84008P |
| 2565 | 160 | 810 | 780 | 700 | 700 | 280,0 | 457 | 84010P |
| 2359 | 200 | 750 | 720 | 700 | 700 | 301,0 | 536 | 84015P |

AQUAFIX® Separators from Polyethylene - Series P

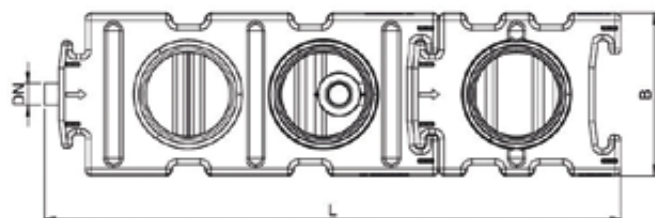
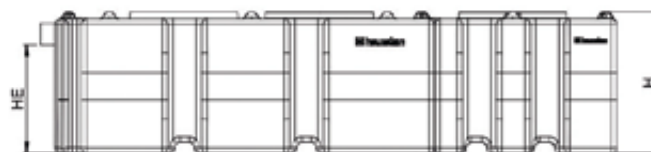
AQUAFIX®10 PE - SKBPPE Coalescence separator with sludge trap and bypass



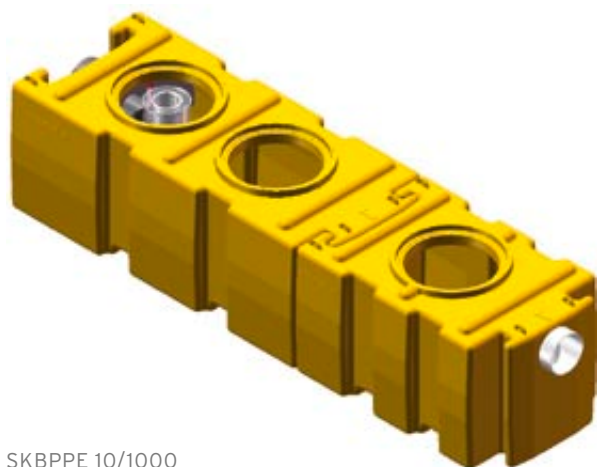
SKBPPE 06/0600



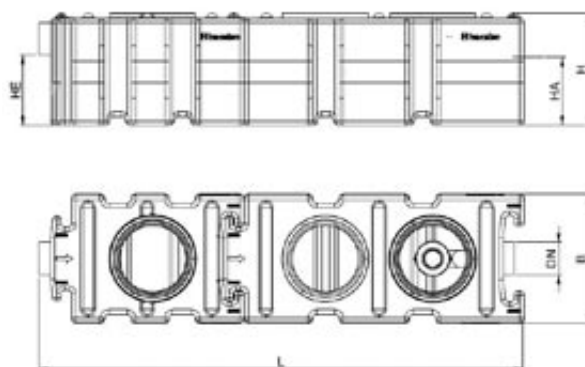
SKBPPE 08/0800



| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|----------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKBPPE 06/0600 | 2910 | 1200 | 1040 | 30 | - | 600 |
| SKBPPE 08/0800 | 4255 | 1200 | 1040 | 40 | - | 800 |
| SKBPPE 10/1000 | 4505 | 1200 | 1040 | 50 | - | 1000 |



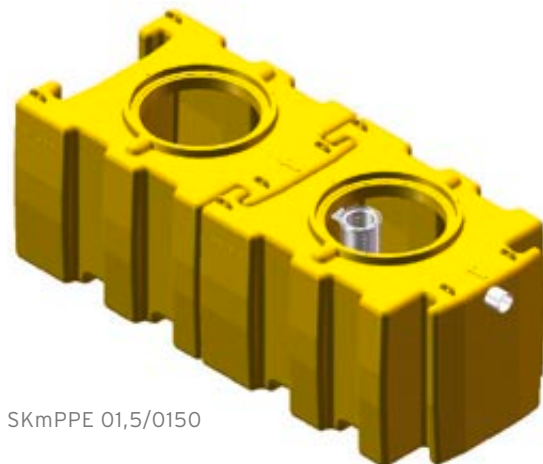
SKBPPE 10/1000



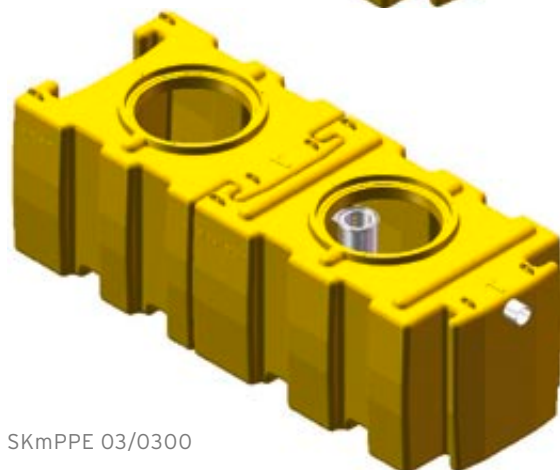
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1315 | 300 | 633 | 623 | 700 | 700 | 203,0 | 304 | 86606P |
| 2079 | 300 | 643 | 623 | 700 | 700 | 285,0 | 304 | 86608P |
| 2074 | 300 | 643 | 623 | 700 | 700 | 297,0 | 488 | 86610P |

AQUAFIX® Separators from Polyethylene - Series P

AQUAFIX®10 PE - SKmPPE Coalescence separator
with sludge trap and pump chamber



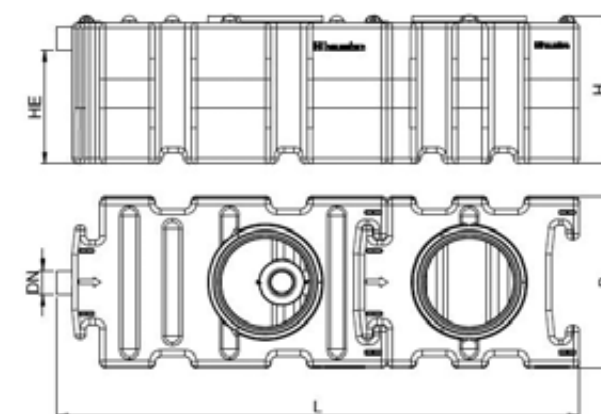
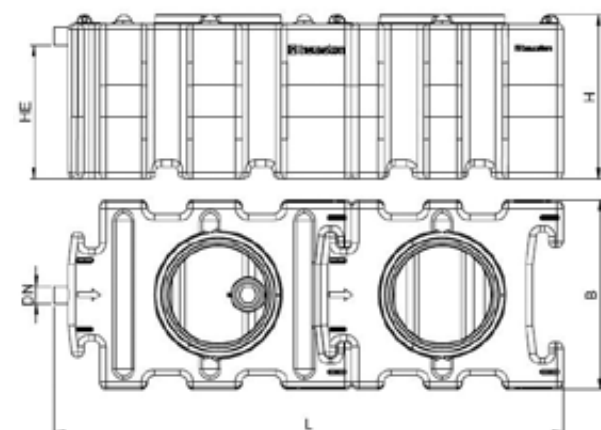
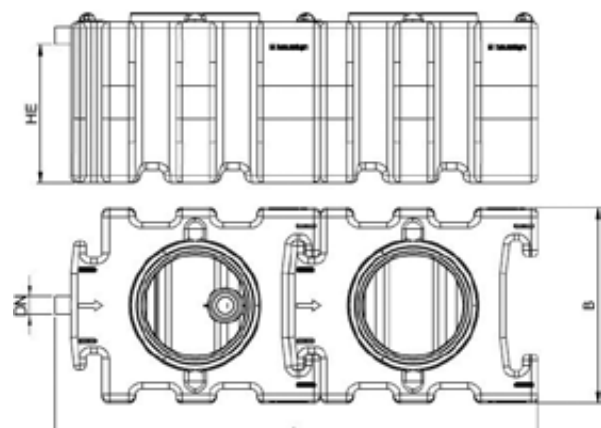
SKmPPE 01,5/0150



SKmPPE 03/0300



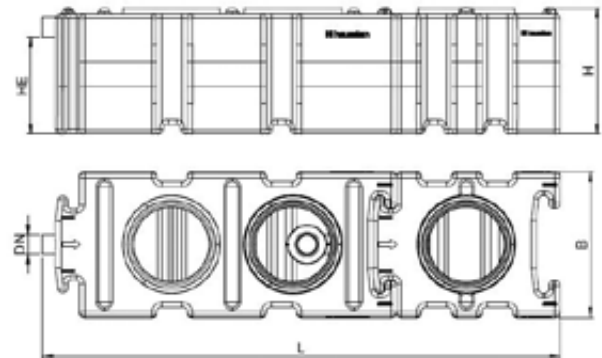
SKmPPE 06/0600



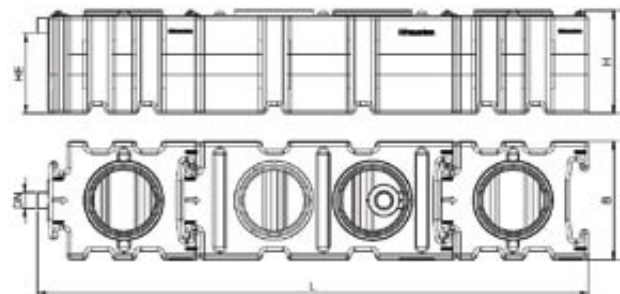
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|------------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SKmPPE 01,5/0150 | 2980 | 1200 | 1040 | 1 | - | 150 |
| SKmPPE 03/0300 | 3240 | 1200 | 1040 | 3 | - | 300 |
| SKmPPE 06/0600 | 3655 | 1200 | 1040 | 6 | - | 600 |
| SKmPPE 08/0800 | 4255 | 1200 | 1040 | 8 | - | 800 |
| SKmPPE 10/1000 | 5600 | 1200 | 1040 | 10 | - | 1000 |
| SKmPPE 15/1500 | 6260 | 1200 | 1040 | 15 | - | 1500 |



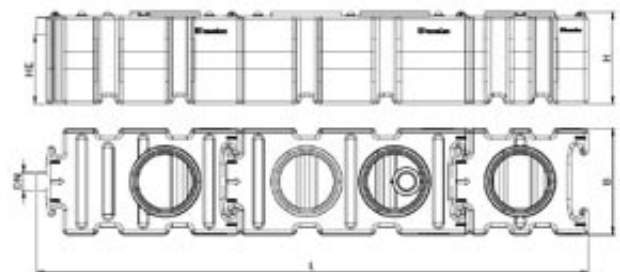
SKmPPE 08/0800



SKmPPE 10/1000



SKmPPE 15/1500



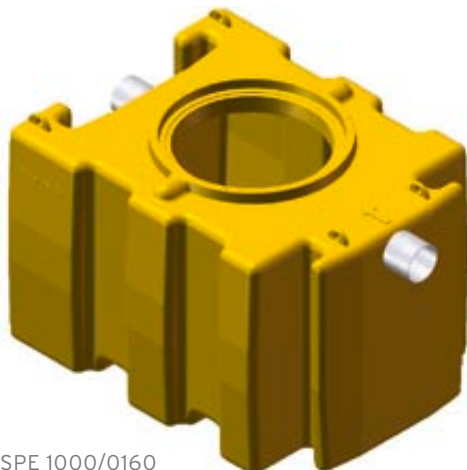
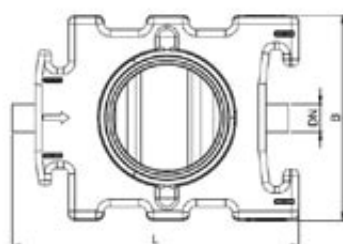
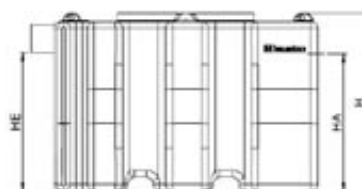
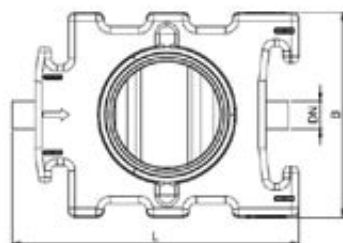
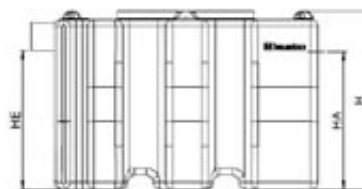
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1120 | 110 | 850 | 830 | 700 | 700 | 205,0 | 153 | 84401P |
| 1227 | 110 | 850 | 830 | 700 | 700 | 217,0 | 184 | 84403P |
| 1210 | 160 | 800 | 780 | 700 | 700 | 265,0 | 232 | 84406P |
| 1571 | 160 | 800 | 780 | 700 | 700 | 287,0 | 304 | 84408P |
| 2565 | 160 | 810 | 780 | 700 | 700 | 369,0 | 457 | 84410P |
| 2359 | 200 | 750 | 720 | 700 | 700 | 390,0 | 536 | 84415P |

AQUAFIX® Separators from Polyethylene - Series P

AQUAFIX®10 PE - SPE Sludge trap

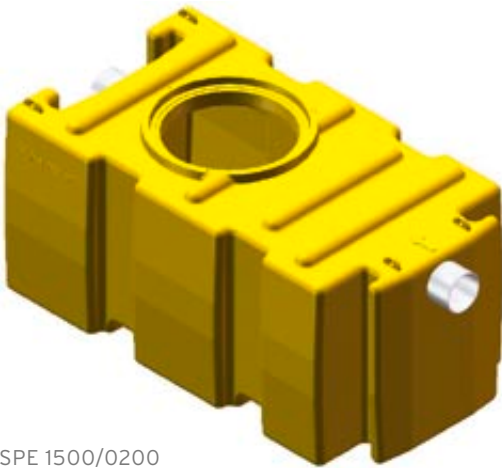


SPE 0800/0160

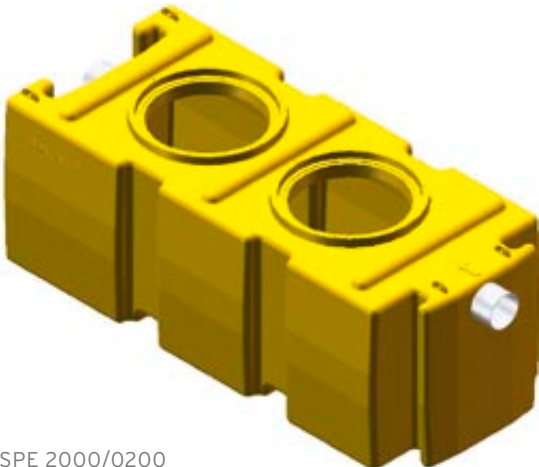


SPE 1000/0160

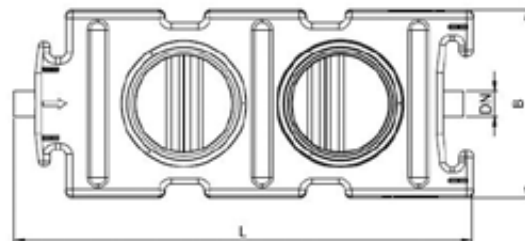
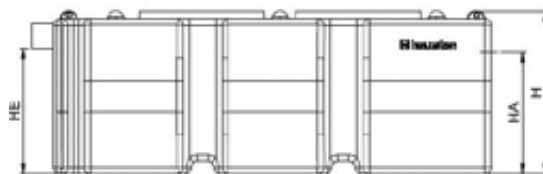
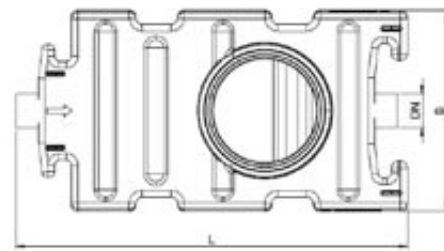
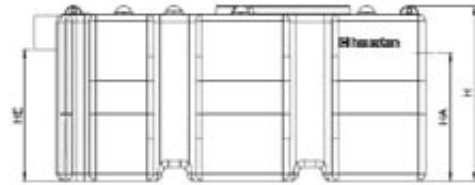
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|---------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SPE 0800/0160 | 1675 | 1200 | 1040 | - | - | 1224 |
| SPE 1000/0160 | 1675 | 1200 | 1040 | - | - | 1224 |
| SPE 1500/0200 | 2335 | 1200 | 1040 | - | - | 1717 |
| SPE 2000/0200 | 2935 | 1200 | 1040 | - | - | 2250 |



SPE 1500/0200



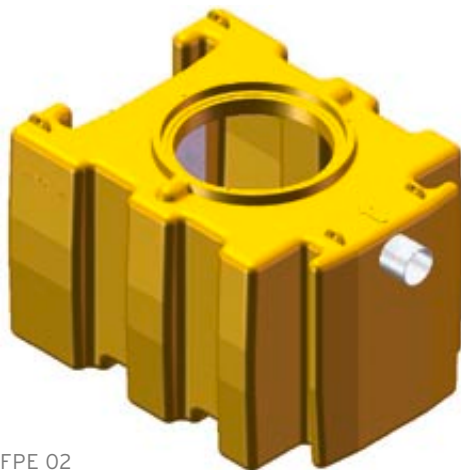
SPE 2000/0200



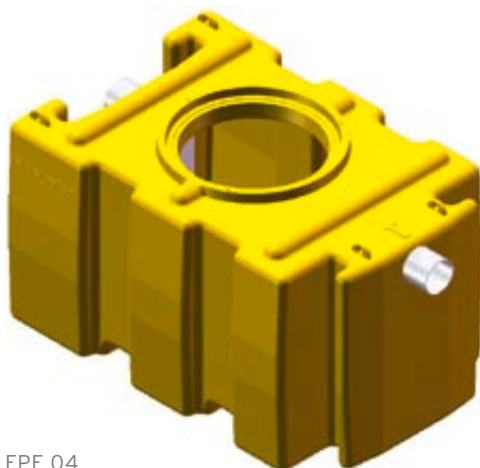
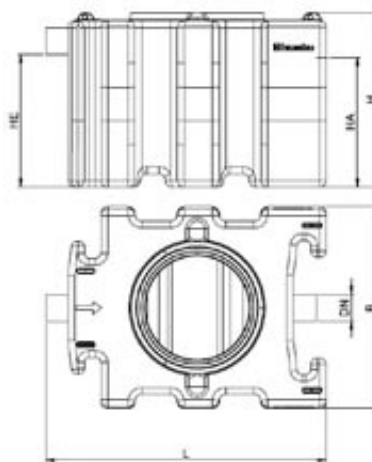
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| - | 160 | 810 | 800 | 700 | - | 92,0 | - | 84308P |
| - | 160 | 810 | 800 | 700 | - | 92,0 | - | 84310P |
| - | 200 | 750 | 740 | 700 | - | 122,0 | - | 84315P |
| - | 200 | 760 | 740 | 700 | 700 | 145,0 | - | 84320P |

AQUAFIX® Separators from Polyethylene - Series P

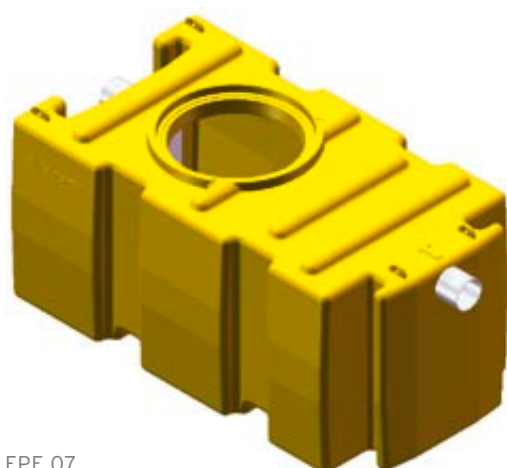
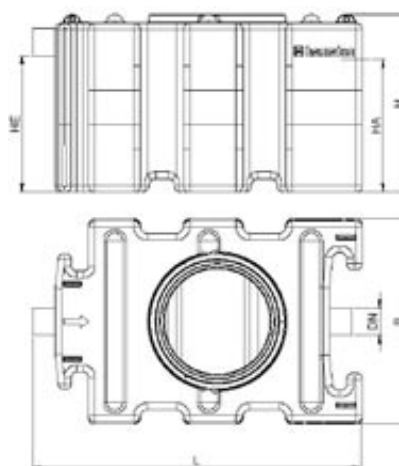
AQUAFIX®10 PE - FPE Grease separator



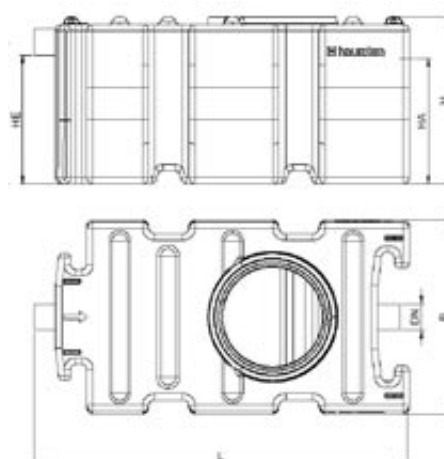
FPE 02



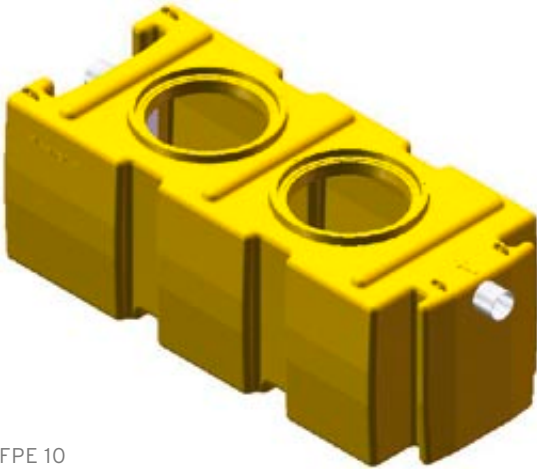
FPE 04



FPE 07



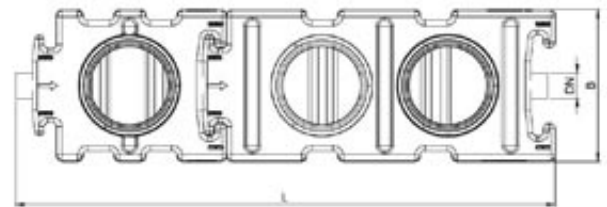
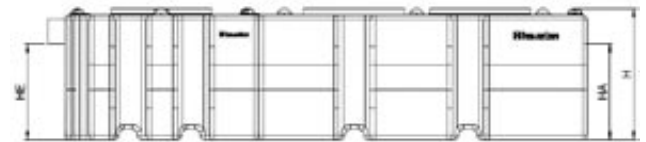
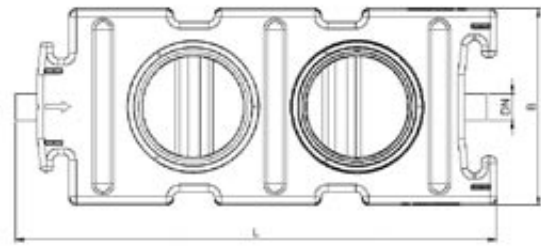
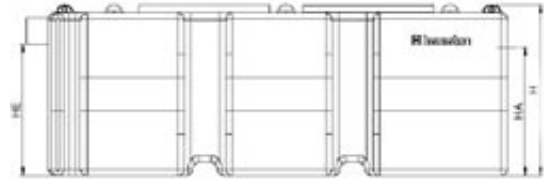
| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|--------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| FPE 02 | 1675 | 1200 | 1040 | 2 | - | - |
| FPE 04 | 1925 | 1200 | 1040 | 4 | - | - |
| FPE 07 | 2330 | 1200 | 1040 | 7 | - | - |
| FPE 10 | 2935 | 1200 | 1040 | 10 | - | - |
| FPE 15 | 4280 | 1200 | 1040 | 15 | - | - |



FPE 10



FPE 15



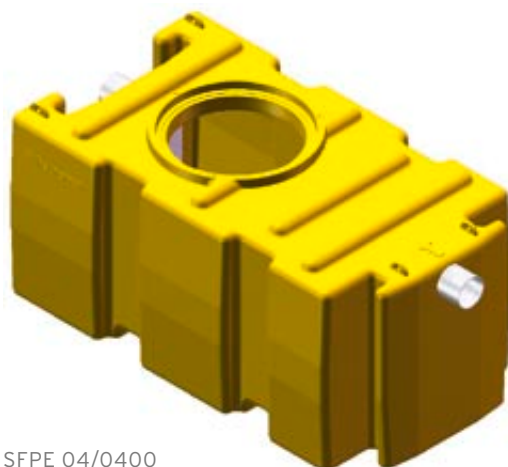
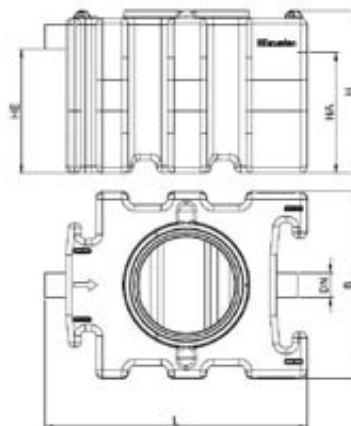
| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1178 | 160 | 790 | 770 | 700 | - | 95,0 | 153 | 85002P |
| 1435 | 160 | 800 | 780 | 700 | - | 107,0 | 184 | 85004P |
| 1810 | 160 | 800 | 780 | 700 | 700 | 124,0 | 232 | 85007P |
| 2371 | 160 | 800 | 780 | 700 | 700 | 141,0 | 304 | 85010P |
| 3382 | 200 | 760 | 740 | 700 | 700 | 238,0 | 457 | 85015P |

AQUAFIX® Separators from Polyethylene - Series P

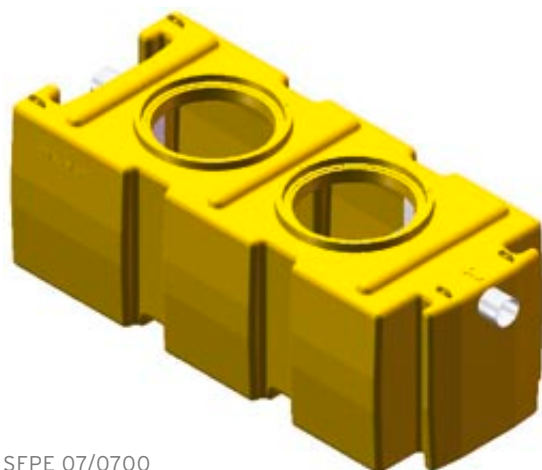
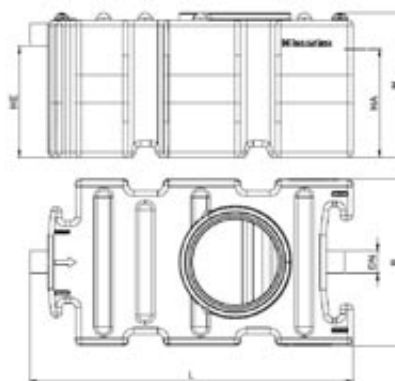
AQUAFIX®10 PE - SFPE Grease separator with sludge trap



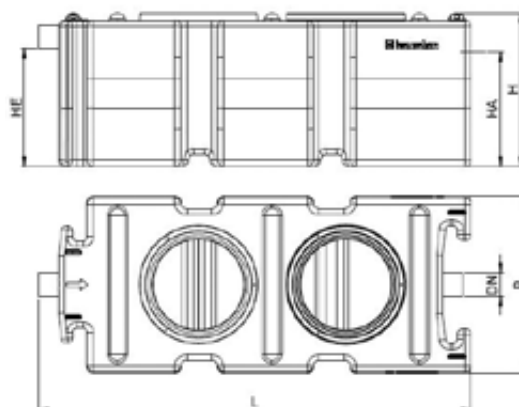
SFPE 02/0200



SFPE 04/0400



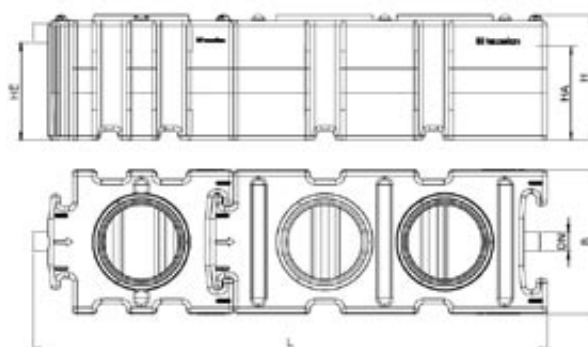
SFPE 07/0700



| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|--------------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SFPE 02/0200 | 1675 | 1200 | 1040 | 2 | - | 200 |
| SFPE 04/0400 | 2335 | 1200 | 1040 | 4 | - | 400 |
| SFPE 07/0700 | 2935 | 1200 | 1040 | 7 | - | 700 |
| SFPE 10/1000 | 4280 | 1200 | 1040 | 10 | - | 1000 |



SFPE 10/1000



| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 993 | 160 | 800 | 780 | 700 | - | 103,0 | 153 | 85302P |
| 1210 | 160 | 800 | 780 | 700 | 700 | 134,0 | 232 | 85304P |
| 1671 | 160 | 800 | 780 | 700 | 700 | 156,0 | 304 | 85307P |
| 2565 | 160 | 810 | 780 | 700 | 700 | 238,0 | 457 | 85310P |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

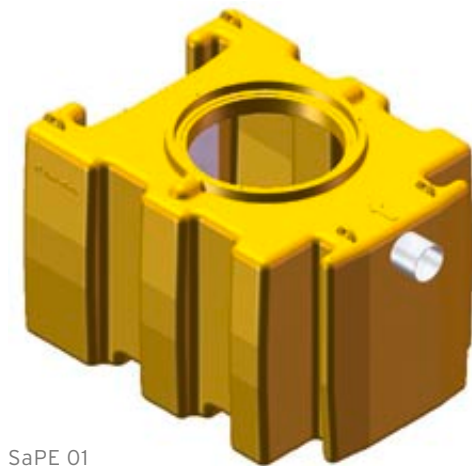
AQUAFIX® „10 PE“

AQUAFIX® „PP“

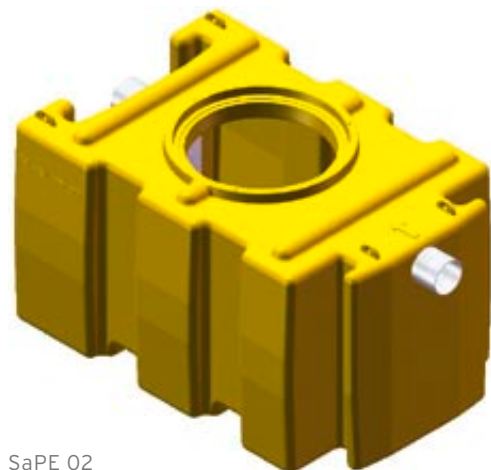
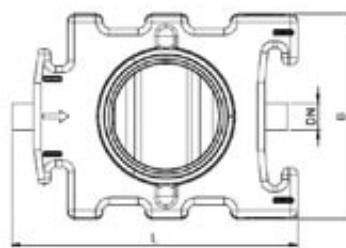
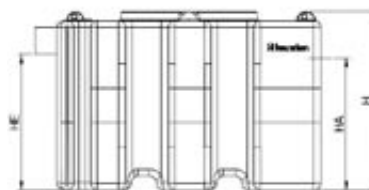
INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from Polyethylene - Series P

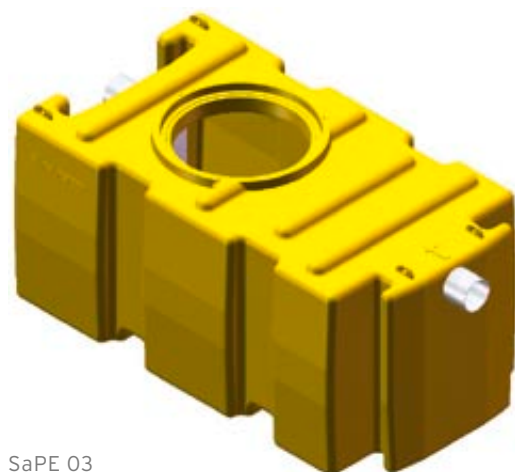
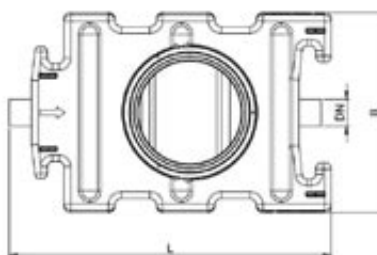
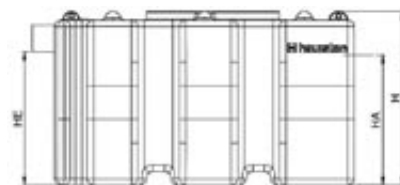
AQUAFIX®10 PE - SAPE Starch separator



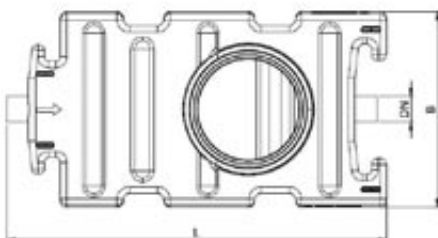
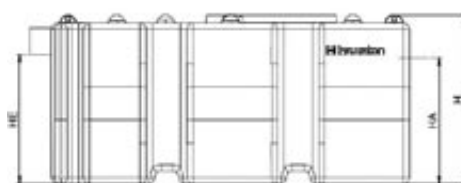
SaPE 01



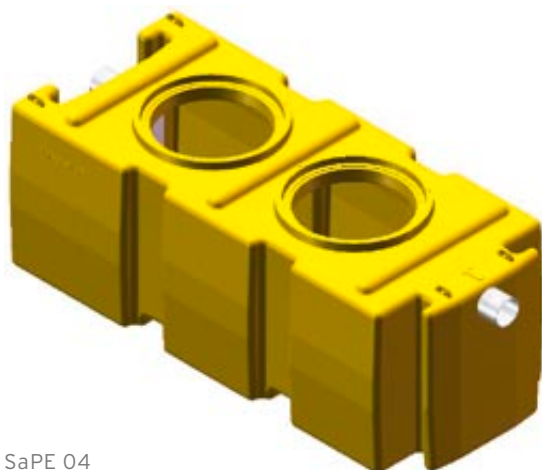
SaPE 02



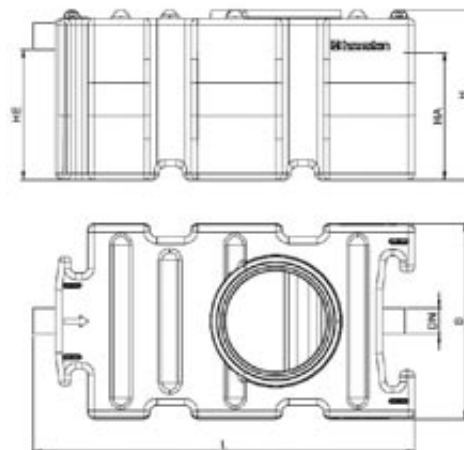
SaPE 03



| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|---------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| SaPE 01 | 1675 | 1200 | 1040 | 1 | - | - |
| SaPE 02 | 1935 | 1200 | 1040 | 2 | - | - |
| SaPE 03 | 2335 | 1200 | 1040 | 3 | - | - |
| SaPE 04 | 2935 | 1200 | 1040 | 4 | - | - |



SaPE 04



| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1178 | 160 | 790 | 770 | 700 | - | 93,0 | 153 | 86201P |
| 1435 | 160 | 800 | 780 | 700 | - | 102,0 | 184 | 86202P |
| 1810 | 160 | 800 | 780 | 700 | - | 124,0 | 232 | 86203P |
| 2371 | 160 | 800 | 780 | 700 | 700 | 145,0 | 304 | 86204P |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

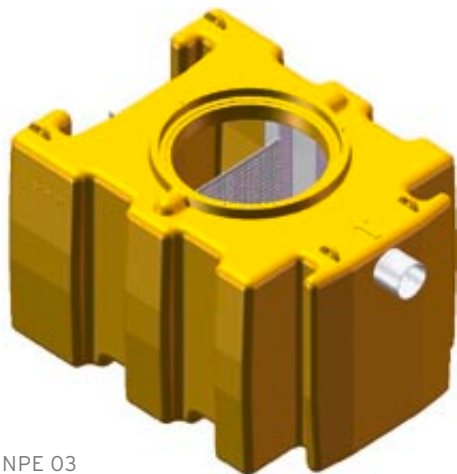
AQUAFIX® „10 PE“

AQUAFIX® „PP“

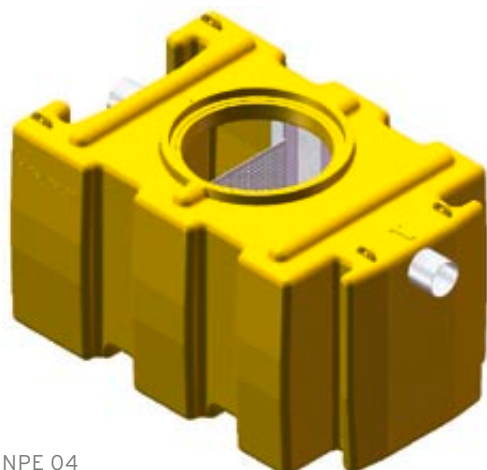
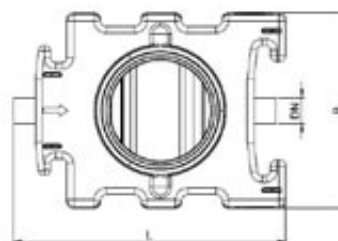
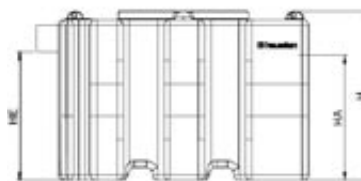
INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from Polyethylene - Series P

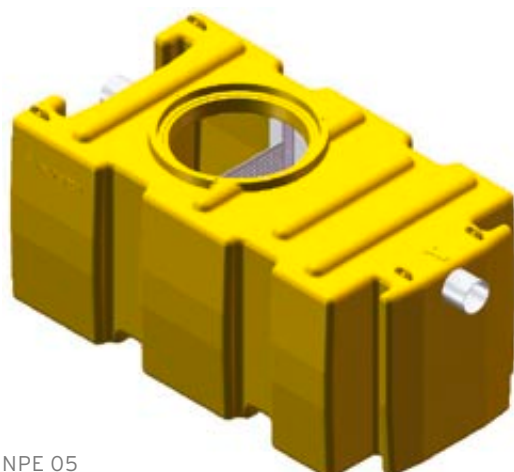
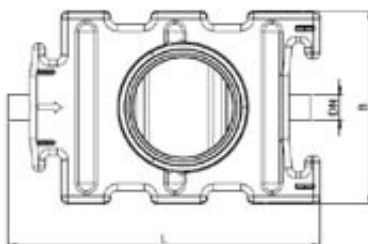
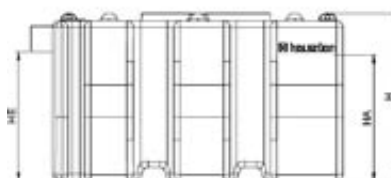
AQUAFIX®10 PE - NPE Battery acid neutraliser



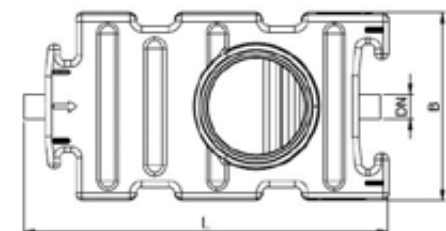
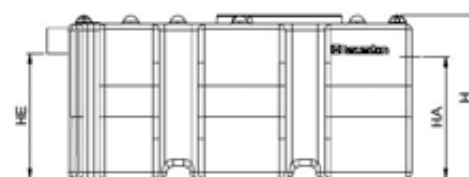
NPE 03



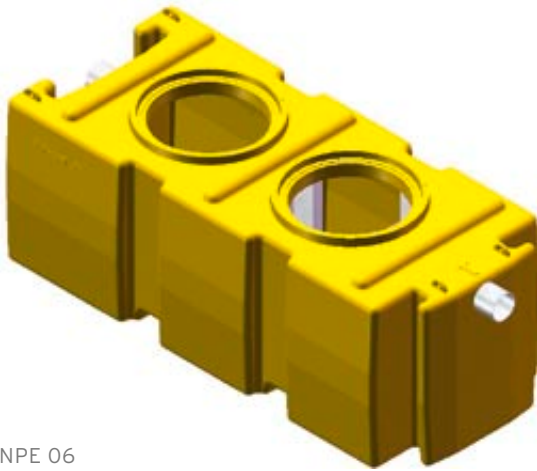
NPE 04



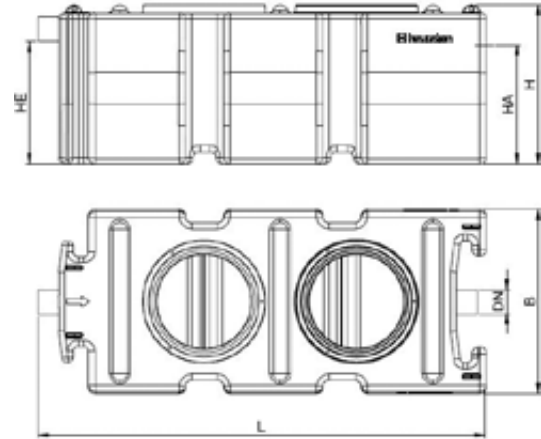
NPE 05



| | Length mm | Width mm | Height mm | max. Flow l/s | ø Separator mm | sludge trap capacity l |
|--------|--------------|-------------|--------------|------------------|-------------------|------------------------------|
| NPE 03 | 1675 | 1200 | 1040 | 3 | - | - |
| NPE 04 | 1935 | 1200 | 1040 | 4 | - | - |
| NPE 05 | 2335 | 1200 | 1040 | 5 | - | - |
| NPE 06 | 2935 | 1200 | 1040 | 6 | - | - |



NPE 06



| separator capacity l | DN in-/outlet mm | HE H inlet mm | HA H outlet mm | DNE manhole 1 | DNE manhole 2 | Weight kg | storage capacity l | Item No. |
|-------------------------|------------------------|---------------------|----------------------|------------------|------------------|--------------|--------------------------|-------------|
| 1193 | 160 | 800 | 780 | 700 | - | 107,0 | - | 86903P |
| 1435 | 160 | 800 | 780 | 700 | - | 119,0 | - | 86904P |
| 1810 | 160 | 800 | 780 | 700 | - | 137,0 | - | 86905P |
| 2371 | 160 | 800 | 780 | 700 | 700 | 160,0 | - | 86906P |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „10 PE“ MADE OF POLYETHYLENE

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES „10 PE“ MADE OF POLYETHYLENE

☐ Installation in frequented areas.

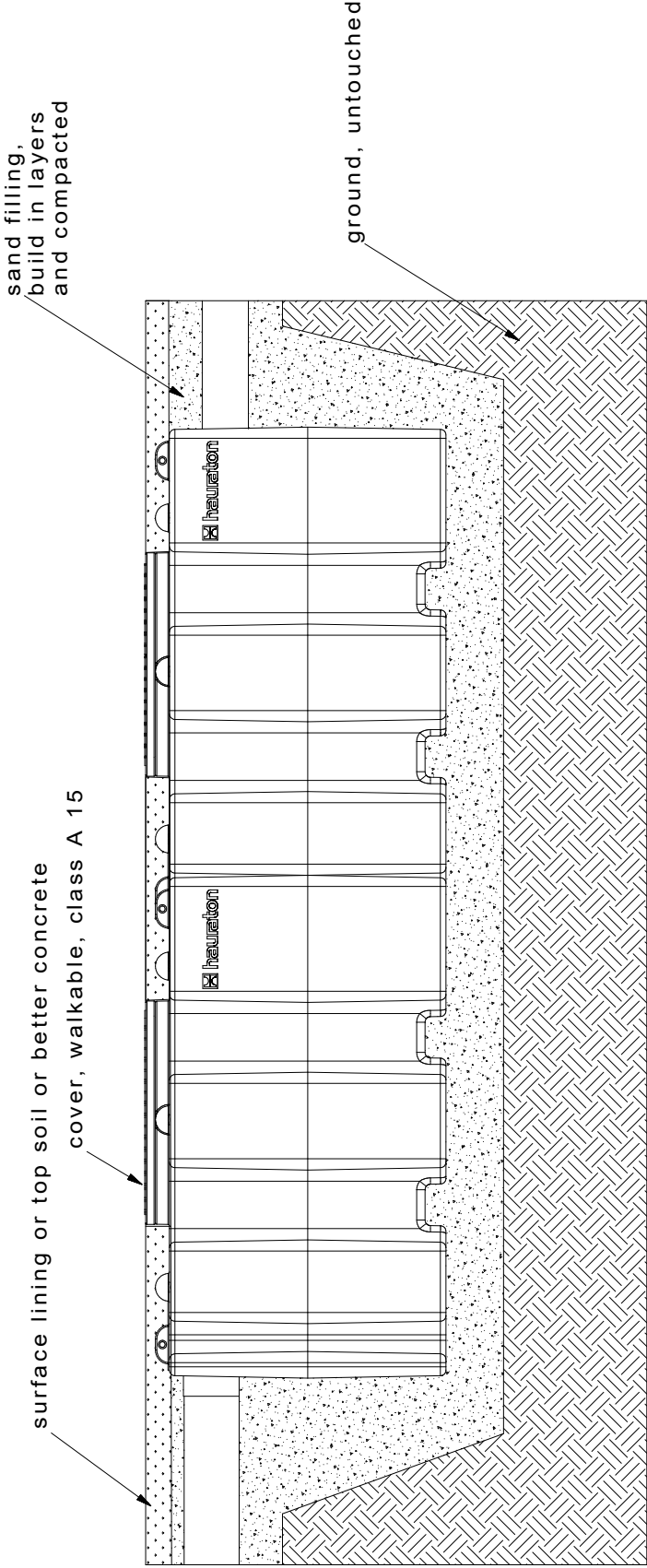
1. The system must be installed below ground.
2. Place the system on a stable base (concrete) in a horizontal position.
3. Connect the inlet and the outlet to the sewage system.
4. Connect the height adaptation equipment if necessary, and adjust the height thereof depending on the nature of the terrain.
5. Fill the system with clean water, packing layers of sand around the equipment.
6. If the system is being installed in a frequented area a 400 kN cast iron cover must be provided. The cast iron lid is attached to the self-supporting concrete base and sealed, whereby the edge of the floor (height and reinforcement must be calculated) serves as a base.
7. Manual transport on side can be done easily with steel bars which can be put through the holes of the outer stop rings.

☐ Installation outside frequented areas.

1. The system must be installed below ground.
2. Place the system on a compressed earth or concrete base in a horizontal position.
3. Connect the inlet and the outlet to the sewage system.
4. If necessary, attach the height adapter and adjust the height thereof depending on the nature of the top edge of the ground.
5. Fill the system with clean water, packing layers of sand down around the system.
6. If several height adapters are required, a self-supporting concrete base must be made (base height and reinforcement must be calculated).
7. Manual transport on side can be done easily with steel bars which can be put through the holes of the outer stop rings.

Installation drawing separators series 10 PE

walkable areas - loading capacity A 15



Installation at minor depth,
Separator is not protected against buoyancy!
Separator should be filled with water
during placement of sand,
filling continuously.

Werkstraße 13
76437 Restat
Germany

Teil: +49 72 28 9 58-0
Fax: +49 72 28 9 58-100
Info@hauraton.com

Einbauzeichnung PE_KI_A_ger

| | | | | | | | |
|------------------|--|--------------------|--|---------------|--|----------------|--|
| hauraton | | Artike-Nr. C101530 | | Formal DIN A3 | | Zeichnungs-Nr. | |
| Lieferanten-Nr. | | kg | | Projekt 10 PE | | Blatt 1 | |
| Erst-Einstellung | | Coe | | Dentilarte | | von 1 | |
| Erst-Einstellung | | Coe | | Material | | Maßstab 1:50 | |
| Anbauverfahren | | PE | | Status | | Datum | |
| Version | | hauraton | | Datum | | Name | |

| Version | Änderungen | Datum | Name |
|---------|------------|-------|------|
| | | | |

Installation drawing separators series 10 PE

trafficable areas - loading capacity D 400

concrete slab, bearing, reinforced, buoyancy protection cover, class D 400

sand filling, build inlayers and compacted

ground, untouched

Installation at minor or medium depth.
Separator is protected against buoyancy by concrete slab on top.
Separator should be filled with water during placement of sand, filling continuously.



Verkestrade 13
76437 Restat
Germany

Teil: +49 72 28 9 58-0
Fax: +49 72 28 9 58-100
Info@hauraton.com

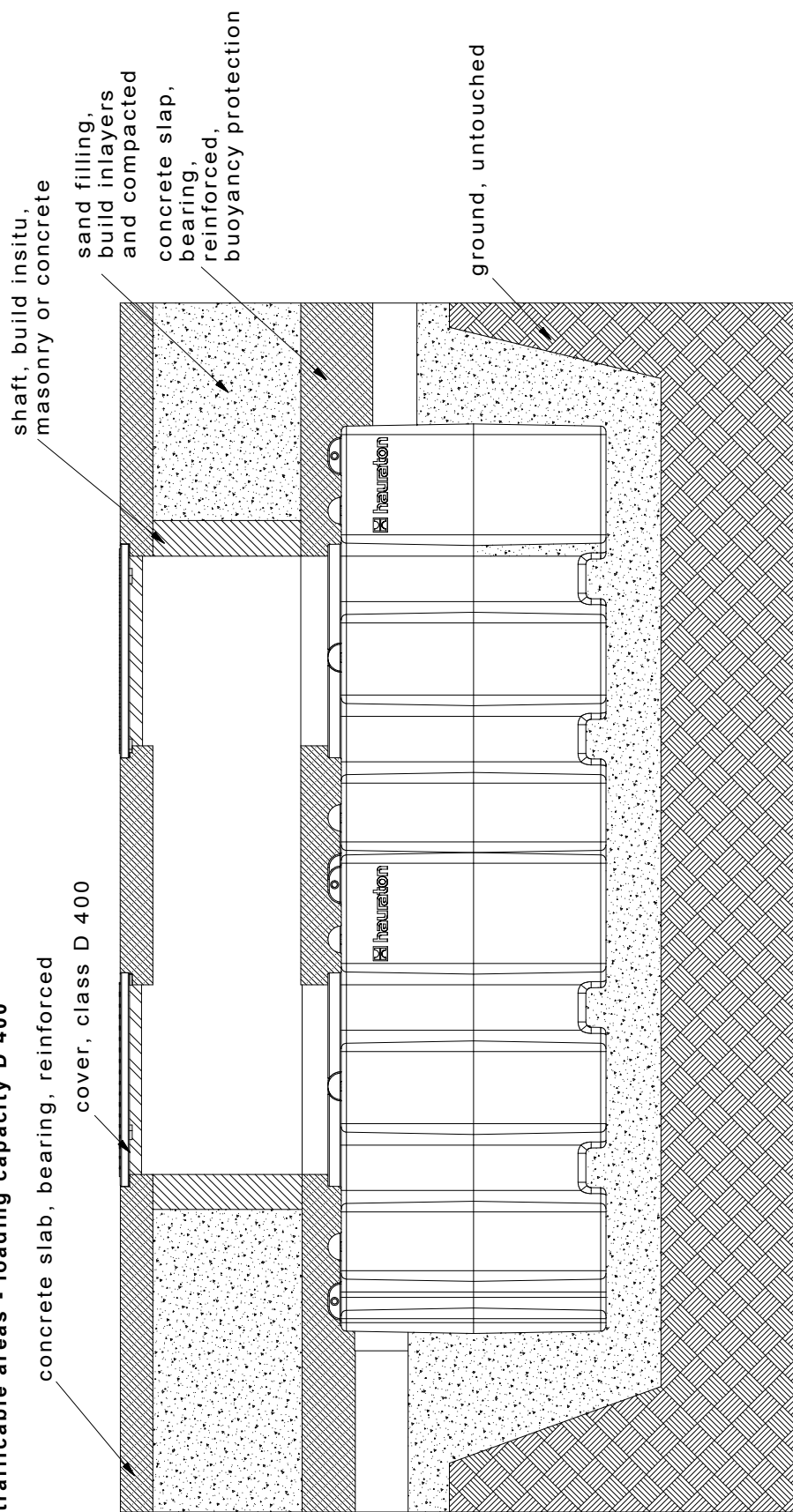
Einbauzeichnung PE_KI_D_mittel

| | | | | | | | |
|---------------------------|--|------------------------|--|-----------------|--|----------------|--|
| Lieferung | | Artikel-Nr. 0000018701 | | Formal DIN A3 | | Zeichnungs-Nr. | |
| Lieferung nach DIN 31 130 | | Art. Nr. C101530 | | Lieferanten-Nr. | | Blatt 1 | |
| Erst-Einstellung | | Coe | | Proj. 10 PE | | von 1 | |
| Erst-Einstellung | | Coe | | Proj. 10 PE | | Skizze 1:50 | |
| Anbau-Details | | Material | | PE | | Status | |
| Version | | Datum | | Datum | | Name | |

INSTALLATION DRAWING

Installation drawing separators series 10 PE

trafficable areas - loading capacity D 400



Installation major depth.

Separator is protected against buoyancy by concrete slap on top. Separator should be filled with water during placement of sand, filling continuously.

Gruppi

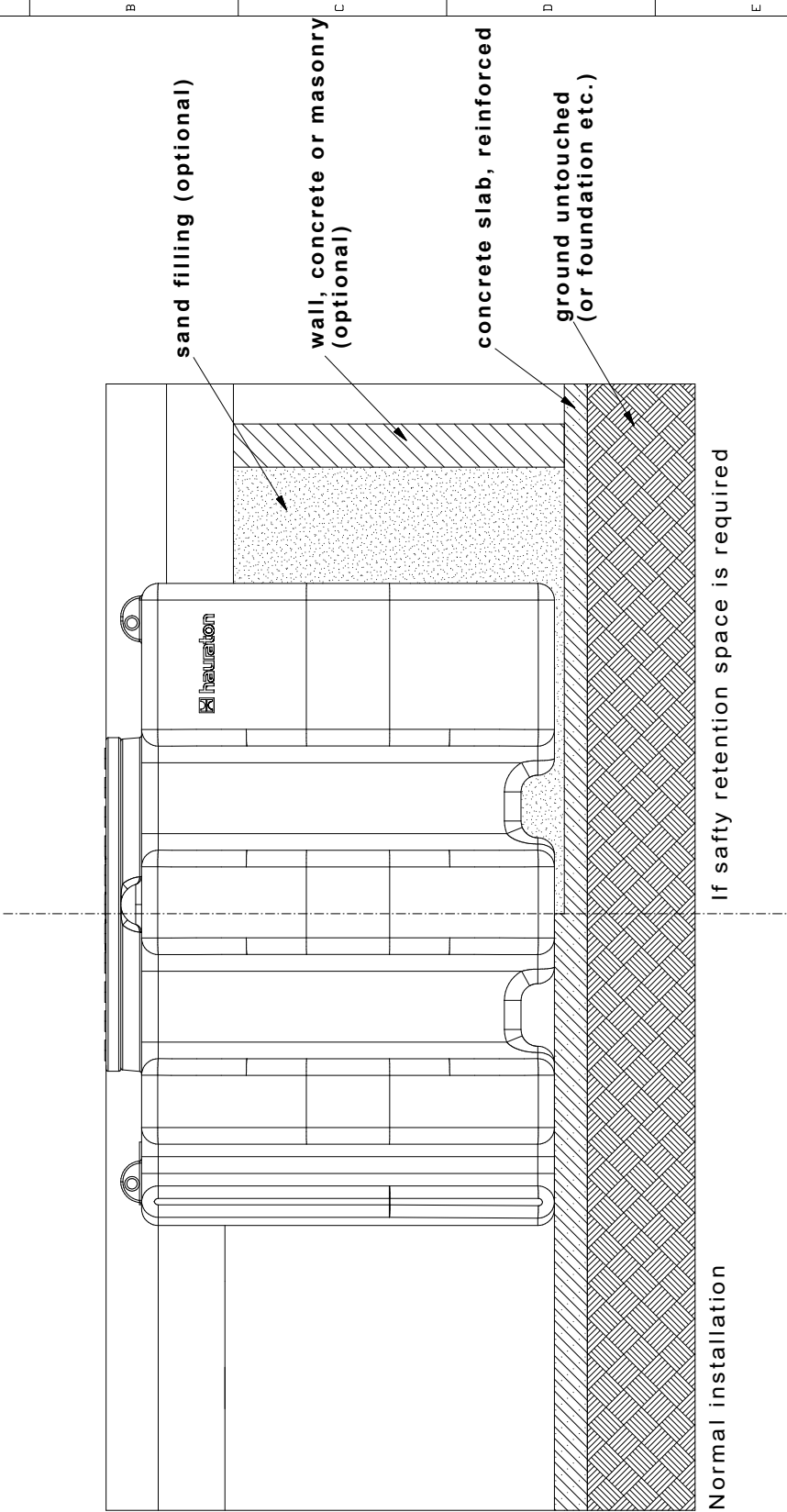
hauraton
 Werkstrasse 13 Tel. +49 72 22 9 53-0
 76437 Rostatt Fax +49 72 22 9 53-100
 Germany info@hauraton.com

Einbauzeichnung PE_KI_D_tief

[illegible]

Installation drawing separators series 10 PE

Installation above ground



| | | | |
|---|--|--|--|
| Bezeichnung | | Einbauzeichnung PE_oberirdisch | |
| hauertan | | CDV-Nr.: 000018194 | |
| Werkstraße 13 76437 Rastatt Germany | | Tel.: +49 72 22 9 55-0 Fax: +49 72 22 9 55-100 info@hauertan.com | |
| Allgemeinbestimmungen nach | | Art.Nr.-NC101325 | |
| Lieferanzschluß nach DIN 24 laodfien | | Formel DIN A3 | |
| Dabun | | Lieferanten-Nr. | |
| Nore | | Projekt 10 PE | |
| 081208 | | Blatt 1 | |
| C.O.e | | von 1 | |
| Erst-Erstellung | | Nebst 1:20 | |
| Erst-Freigabe | | Status | |
| Prüfung-Freigabe | | Material | |
| PE | | Dabun | |
| Version | | Nore | |

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „10 PE“ MADE OF POLYETHYLENE

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES „10 PE“ MADE OF POLYETHYLENE

□ Before start-up

1. Clean entire system and remove residual mortar, soil etc.
2. Fill sludge trap and separator with fresh water.
Please ensure that water level is same in all chambers of tank, and .ll in sequence!
3. Re-check joints of system for leaks.

□ Operation

Separator must be drained at least every six months, but should not be allowed to .ll to more than 85% of its storage capacity. Cleaning must occur more often if the storage capacity of the separator or sludge trap is exceeded. Operation must not be interrupted. All separated material must be drained, cleaned and taken away for disposal by an approved disposal company. Please empty the separator and the sludge trap of this type of system at the same time if possible. First extract the oil layer from the system and then the layer of water beneath it, into separate tanks if possible. Clean float and seal every time the system is emptied and check operation thereof.

With coalescence separators: If the coalescence material is soiled, remove coalescence material, clean above sludge trap, give damaged coalescence material to disposal company and replace with new material. Replace coalescence material. Refill system with fresh water whenever it is emptied and cleaned.

OPERATION AND MAINTENANCE OF AQUAFIX® GREASE SEPARATOR SERIES „10 PE“ MADE OF POLYETHYLENE

□ Before start-up

Clean entire system and remove any residual mortar, soil etc. if necessary. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following instructions must be followed for the entire system: EN 1825 Grease separating systems

Local water removal regulations and other instructions Only sewage that does not have a detrimental effect on the intended operation of the separator must be led to the separator. It is particularly important to prevent domestic sewage and light mineral liquids from entering the separator. Do not allow rainwater to enter the system.

□ Disposal

1. Grease separators must be cleaned at least once per month, possibly more frequently. Cleaning must take place more frequently if the separator or sludge trap storage capacity is exceeded. The operation of the separator must not be affected.
2. Have all separated material drained, cleaned and taken away by an approved disposal company.
3. Fill entire system with fresh water after it has been emptied and drained.
4. Use mobile ladders when entering the system.
Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

□ Maintenance

The separator must be serviced at least once per month. The system must be drained and cleaned in order to do this. Carefully check that all system components are in good working order and undamaged. Then refill system with fresh water. It is **extremely important to observe the accident prevention regulations!**

AQUAFIX® SEPARATORS

SERIES „PP“ MADE OF POLYPROPYLENE
ONE SYSTEM FOR ALL CASES.





AT A GLANCE:

- ✓ 6 to 12 mm wall thickness
- ✓ light --> installation on site is possible without crane
- ✓ high stability (self standing construction)

AQUAFIX® SEPARATORS

SERIES „PP“ MADE OF POLYPROPYLENE

ONE SYSTEM FOR ALL CASES.

FEATURES

- 6 to 12 mm wall thickness
- stop rings to handle in horizontal und vertical position
- buoyancy protection
- according standards EN 858 or EN 1825
- wide openings
- for light liquid separators:
 - automatic closing device easy to remove
 - coalescence cell easy to remove
- sample taking device can be integrated

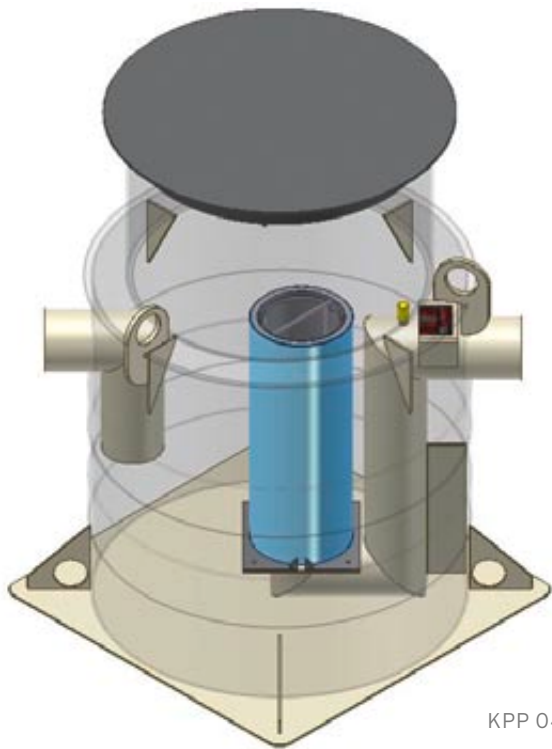
EXTENSIONS

Extension 500 mm included, adjustment rings 500 mm can be supplied. Covers in class A or D available.

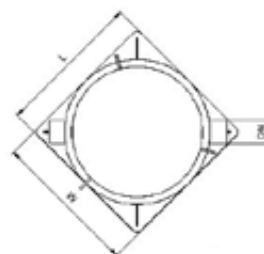
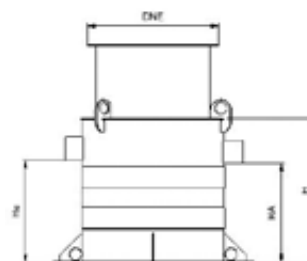


AQUAFIX® Separators from Polypropylene - Series H

AQUAFIX® - KPP Coalescence separator

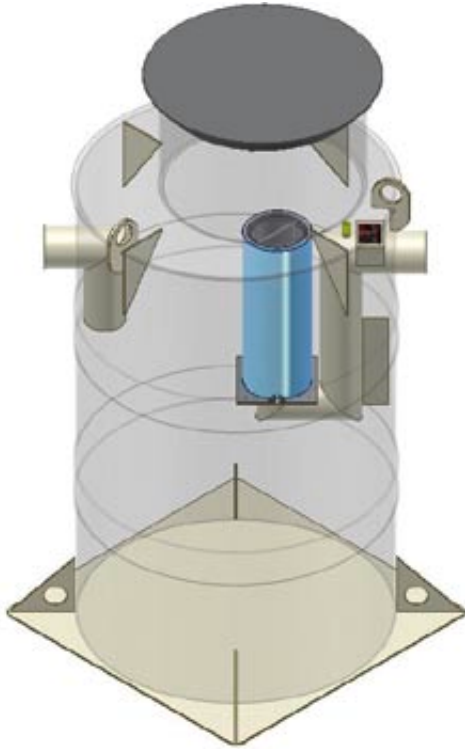


KPP 04

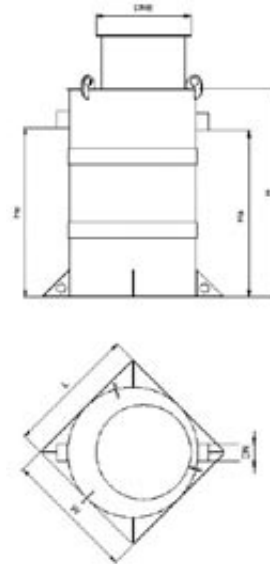


| | Length mm | Width mm | Height mm | max. ϕ Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|--------|--------------|-------------|--------------|----------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| KPP 04 | 700 | 700 | 1044 | 4 | 588 | - | 191 | 100 | 706 | 681 | 600 | - | 30,0 | 57 | 283504 |
| KPP 06 | 850 | 850 | 1500 | 6 | 788 | - | 339 | 150 | 706 | 681 | 800 | - | 57,0 | 101 | 283506 |
| KPP 10 | 1000 | 1000 | 1496 | 10 | 938 | - | 478 | 150 | 702 | 677 | 800 | - | 67,0 | 142 | 283510 |
| KPP 15 | 1240 | 1240 | 1749 | 15 | 1174 | - | 1140 | 200 | 853 | 828 | 800 | - | 144,0 | 226 | 283515 |
| KPP 20 | 1500 | 1500 | 1749 | 20 | 1414 | - | 1325 | 200 | 853 | 828 | 800 | - | 161,0 | 321 | 283520 |

AQUAFIX® - SKPP Coalescence separator with sludge trap



SKPP 04/0400



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE manho- le 1 | DNE manho- le 2 | Weight kg | storage capa- city l | Item No. |
|--------------|--------------|-------------|--------------|--------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SKPP 04/0400 | 1000 | 1000 | 1840 | 4 | 938 | 424 | 478 | 100 | 1071 | 1046 | 800 | - | 67,0 | 142 | 284004 |
| SKPP 06/0600 | 1000 | 1000 | 2345 | 6 | 938 | 603 | 478 | 150 | 1551 | 1526 | 800 | - | 82,0 | 142 | 284006 |
| SKPP 06/1200 | 1240 | 1240 | 2480 | 6 | 1174 | 1211 | 551 | 150 | 1604 | 1579 | 800 | - | 120,0 | 226 | 284106 |
| SKPP 10/1000 | 1240 | 1240 | 2480 | 10 | 1174 | 1011 | 751 | 150 | 1604 | 1579 | 800 | - | 120,0 | 226 | 284010 |
| SKPP 10/2500 | 1500 | 1500 | 3074 | 10 | 1418 | 2500 | 1084 | 150 | 2198 | 2173 | 800 | - | 160,0 | 353 | 284110 |
| SKPP 15/1500 | 1500 | 1500 | 2704 | 15 | 1414 | 1547 | 1325 | 200 | 1808 | 1783 | 800 | - | 230,0 | 353 | 284015 |
| SKPP 15/3000 | 2000 | 2000 | 2804 | 15 | 1886 | 3023 | 2364 | 200 | 1908 | 1883 | 800 | - | 280,0 | 573 | 284115 |
| SKPP 20/2000 | 2000 | 2000 | 2446 | 20 | 1886 | 2020 | 2364 | 200 | 1550 | 1525 | 800 | - | 256,0 | 573 | 284020 |
| SKPP 20/4000 | 2500 | 2500 | 2654 | 20 | 2356 | 4026 | 3670 | 200 | 1758 | 1733 | 800 | - | 340,0 | 890 | 284120 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

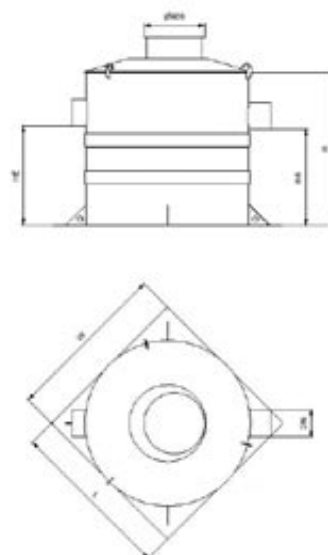
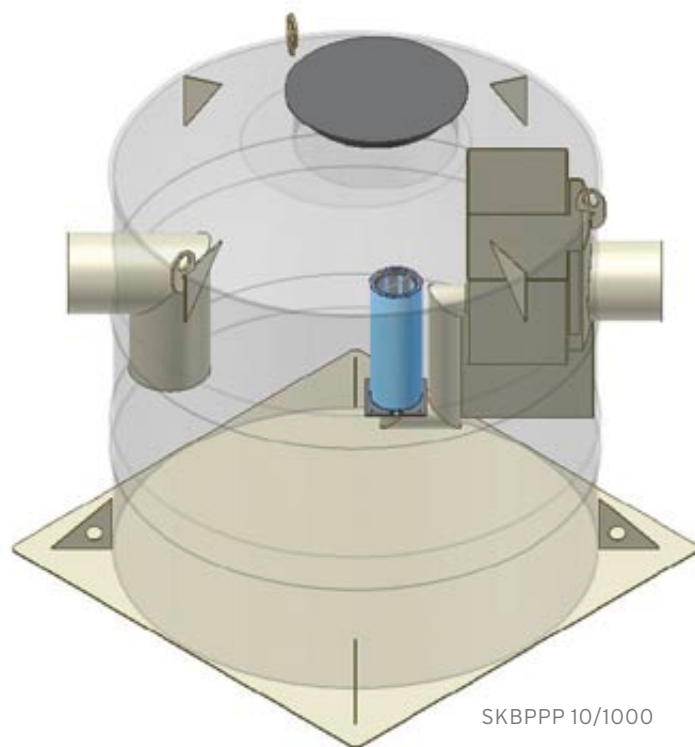
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

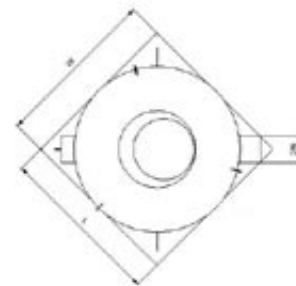
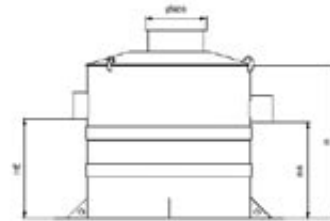
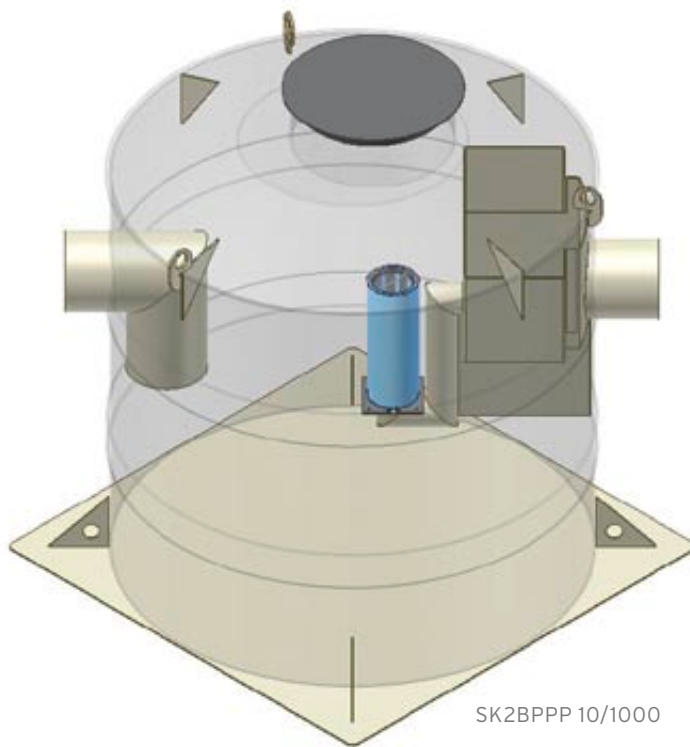
AQUAFIX® Separators from Polypropylene - Series H

AQUAFIX® - SKBPPP Coalescence separator with sludge trap and bypass



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Seperator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-------------------|--------------|-------------|--------------|--------------------|-----------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SKBPPP 10/1000 | 2500 | 2500 | 2374 | 50 | 2356 | 1001 | 3621 | 300 | 1110 | 1060 | 800 | - | 320,0 | 890 | 283610 |
| SKBPPP 10/1000 | 2500 | 2500 | 2772 | 50 | 2356 | 1441 | 5049 | 300 | 1510 | 1460 | 800 | - | 350,0 | 890 | 283610 |
| SKBPPP 15/1500 | 2500 | 2500 | 2674 | 75 | 2356 | 1501 | 4023 | 400 | 1317 | 1267 | 800 | - | 350,0 | 890 | 283615 |
| SKBPPP 15/1500 | 2500 | 2500 | 3074 | 75 | 2356 | 1842 | 5583 | 400 | 1717 | 1667 | 800 | - | 380,0 | 890 | 283615 |

AQUAFIX® - SK2BPPP Coalescence separator with sludge trap and doublebypass



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-----------------|--------------|-------------|--------------|--------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SK2BPPP 10/1000 | 2500 | 2500 | 2474 | 100 | 2356 | 1001 | 3869 | 400 | 1167 | 1117 | 800 | - | 335,0 | 890 | 283010 |
| SK2BPPP 10/1000 | 2500 | 2500 | 2774 | 100 | 2356 | 1441 | 4871 | 400 | 1467 | 1417 | 800 | - | 340,0 | 890 | 283010 |
| SK2BPPP 15/1500 | 2500 | 2500 | 2774 | 150 | 2356 | 1501 | 4241 | 500 | 1367 | 1317 | 800 | - | 360,0 | 890 | 283015 |
| SK2BPPP 15/1500 | 2500 | 2500 | 3074 | 150 | 2356 | 1842 | 5361 | 500 | 1667 | 1617 | 800 | - | 380,0 | 890 | 283015 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

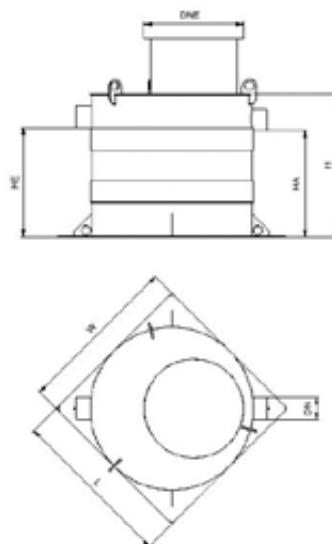
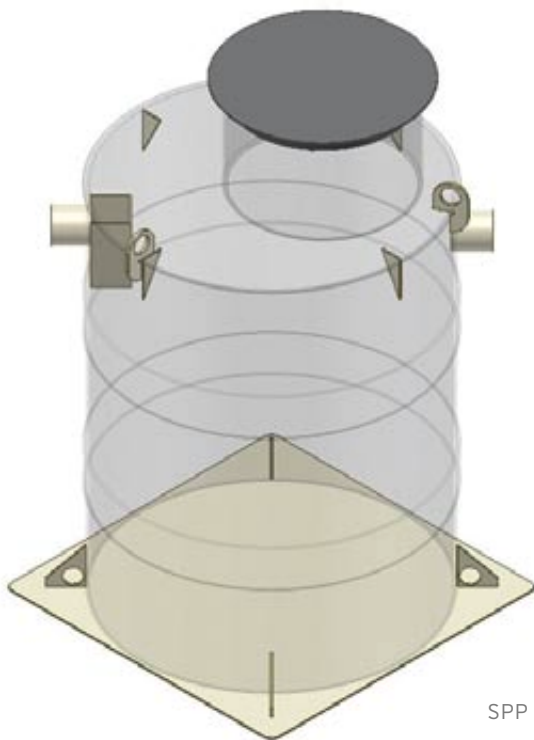
AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from Polypropylene - Series H

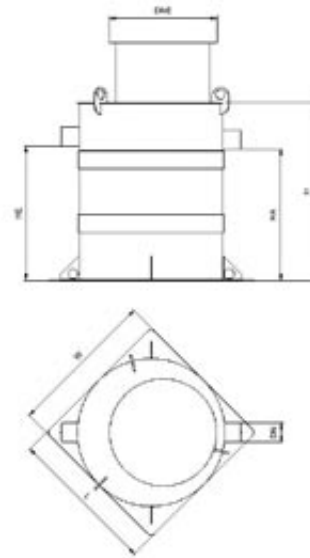
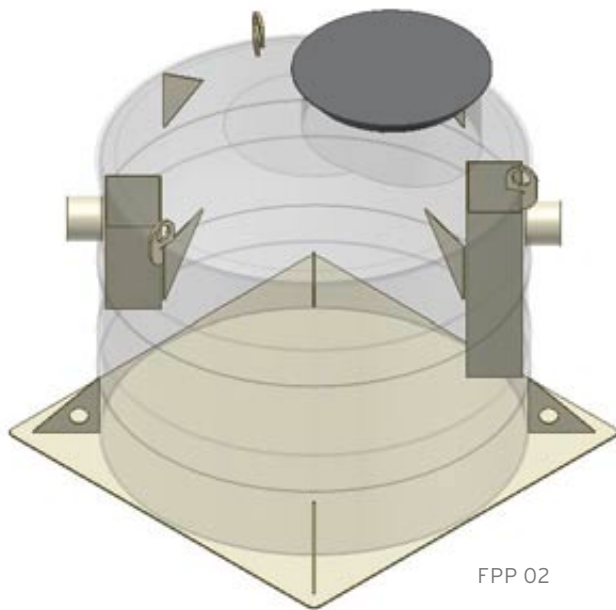
AQUAFIX® - SPP Sludge trap



SPP 0600/06

| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|----------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SPP 0600/06 | 1000 | 1000 | 1675 | - | 938 | 607 | - | 150 | 881 | 856 | 800 | - | 54,0 | - | 284306 |
| SPP 1000/10 | 1240 | 1240 | 1727 | - | 1174 | 1008 | - | 150 | 935 | 910 | 800 | - | 78,0 | - | 284310 |
| SPP 1500/15 | 1500 | 1500 | 1804 | - | 1414 | 1545 | - | 200 | 990 | 965 | 800 | - | 128,0 | - | 284315 |
| SPP 2000/20 | 1500 | 1500 | 2097 | - | 1414 | 2016 | - | 200 | 1283 | 1258 | 800 | - | 140,0 | - | 284320 |
| SPP 2500/10 | 1500 | 1500 | 2449 | - | 1414 | 2615 | - | 150 | 1655 | 1630 | 800 | - | 160,0 | - | 284325 |
| SPP 2500/20 | 1500 | 1500 | 2097 | - | 1414 | 2581 | - | 200 | 1283 | 1258 | 800 | - | 160,0 | - | 284326 |

AQUAFIX® - FPP Grease separator



| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-----------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| FPP 02 | 1000 | 1000 | 1694 | 2 | 938 | - | 567 | 150 | 825 | 800 | 800 | - | 60,0 | 157 | 285002 |
| FPP 04 | 1240 | 1240 | 1998 | 4 | 1174 | - | 1223 | 150 | 1127 | 1102 | 800 | - | 83,0 | 226 | 285004 |
| FPP 07 | 1500 | 1500 | 2224 | 7 | 1414 | - | 2008 | 200 | 1278 | 1251 | 800 | - | 160,0 | 321 | 285007 |
| FPP 10 | 2000 | 2000 | 2011 | 10 | 1886 | - | 3008 | 200 | 1078 | 1053 | 800 | - | 196,0 | 573 | 285010 |
| FPP 15/20 | 2500 | 2500 | 2219 | 20 | 2356 | - | 5561 | 200 | 1278 | 1253 | 800 | - | 270,0 | 890 | 285020 |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

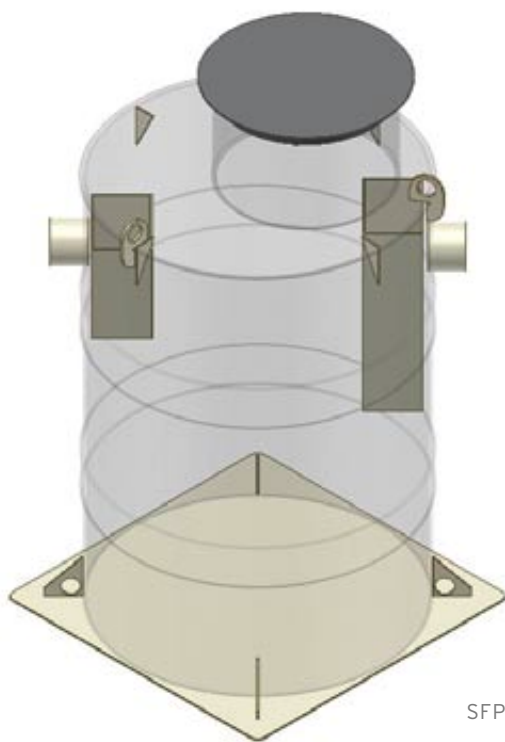
AQUAFIX® „10 PE“

AQUAFIX® „PP“

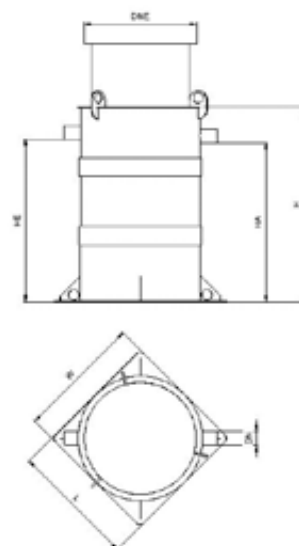
INSTALLATION
INSTRUCTIONS

AQUAFIX® Separators from Polypropylene - Series H

AQUAFIX® - SFPP Grease separator with sludge trap

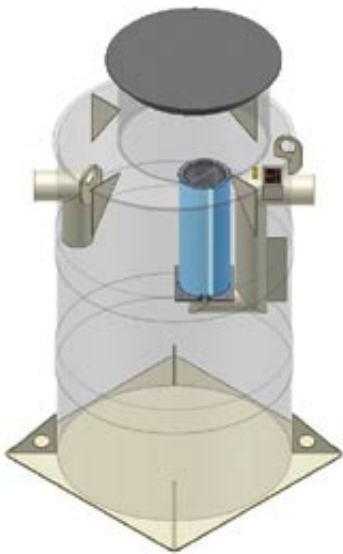


SFPP 02/0200

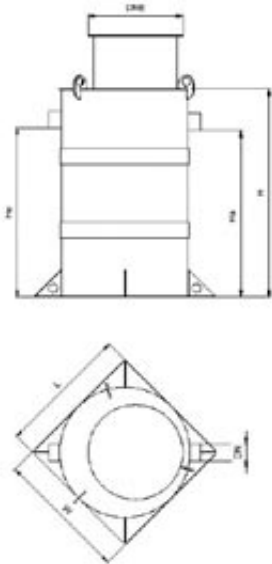


| | Length mm | Width mm | Height mm | max. Ø Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|-----------------|--------------|-------------|--------------|-----------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SFPP 02/0200 | 1000 | 1000 | 2035 | 2 | 938 | 213 | 592 | 150 | 1166 | 1141 | 800 | - | 66,0 | 157 | 285302 |
| SFPP 02/0400 | 1000 | 1000 | 2305 | 2 | 938 | 411 | 585 | 150 | 1436 | 1411 | 800 | - | 71,0 | 157 | 285303 |
| SFPP 04/0400 | 1200 | 1200 | 2307 | 4 | 1174 | 423 | 1140 | 150 | 1436 | 1411 | 800 | - | 90,0 | 226 | 285304 |
| SFPP 04/0800 | 1240 | 1240 | 2654 | 4 | 1174 | 806 | 1140 | 150 | 1803 | 1778 | 800 | - | 98,0 | 226 | 285305 |
| SFPP 07/0700 | 1500 | 1500 | 2654 | 7 | 1414 | 715 | 1983 | 200 | 1708 | 1683 | 800 | - | 180,0 | 353 | 285307 |
| SFPP 07/1400 | 1500 | 1500 | 3104 | 7 | 1414 | 1429 | 1983 | 200 | 2158 | 2133 | 800 | - | 200,0 | 353 | 285308 |
| SFPP 10/1000 | 2000 | 2000 | 2116 | 10 | 1886 | 1003 | 2292 | 200 | 1183 | 1158 | 800 | - | 203,0 | 573 | 285310 |
| SFPP 10/2000 | 2000 | 2000 | 2466 | 10 | 1890 | 2006 | 2292 | 200 | 1533 | 1508 | 800 | - | 227,0 | 573 | 285311 |

AQUAFIX® - MINI separators



SKPP 01,5/0150 H



| | Length mm | Width mm | Height mm | max. \varnothing Flow l/s | Sepe- rator mm | sludge trap capa- city l | sepa- rator capa- city l | DN in-/ outLet mm | HE H inlet mm | HA H outlet mm | DNE man- hole 1 | DNE man- hole 2 | Weight kg | storage capa- city l | Item No. |
|---------------------|--------------|-------------|--------------|--------------------------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|---------------------|----------------------|-----------------------|-----------------------|--------------|-------------------------------|-------------|
| SKPP 01,5/0150 H | - | - | 1000 | 1 | 588 | 130 | 85 | 100 | 801 | 776 | 600 | - | 18,0 | 28 | 84604HU |
| SKPP 01,5/0150 H | - | - | 1000 | 1 | 588 | 130 | 85 | 100 | 801 | 776 | 600 | - | 18,0 | 28 | 84602HU |

AQUAFIX® STEEL „G“

AQUAFIX® STEEL „K“

AQUAFIX® CONCRETE

AQUAFIX® „10 PE“

AQUAFIX® „PP“

INSTALLATION
INSTRUCTIONS

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „PP“ MADE OF POLYPROPYLENE

INSTALLATION ADVISES FOR AQUAFIX® SEPARATORS SERIES „PP“ MADE OF POLYPROPYLENE

☐ Installation in a frequented area

1. The system must be installed below ground.
2. Place the system on a stable base (concrete) in a horizontal position.
3. Connect the inlet and the outlet to the sewage system.
4. Connect the height adaptation equipment if necessary, and adjust the height thereof depending on the nature of the terrain.
5. Fill the system with clean water, packing layers of sand around the equipment.
6. If the system is being installed in a frequented area a 400 kN cast iron cover must be provided. The cast iron lid is attached to the selfsupporting concrete base and sealed, whereby the edge of the floor (height and reinforcement must be calculated) serves as a base.

☐ Installation outside frequented areas.

1. The system must be installed below ground.
2. Place the system on a compressed earth or concrete base in a horizontal position.
3. Connect the inlet and the outlet to the sewage system.
4. Connect the ventilation (diam. 50 mm).
5. If necessary, attach the height adapter and adjust the height thereof depending on the nature of the top edge of the ground.
6. Fill the system with clean water, packing layers of sand down around the system.
7. If several height adapters are required, a self-supporting concrete base must be made (base height and reinforcement must be calculated).

Installation drawing separator from PP
walkable areas - loading capacity A 15

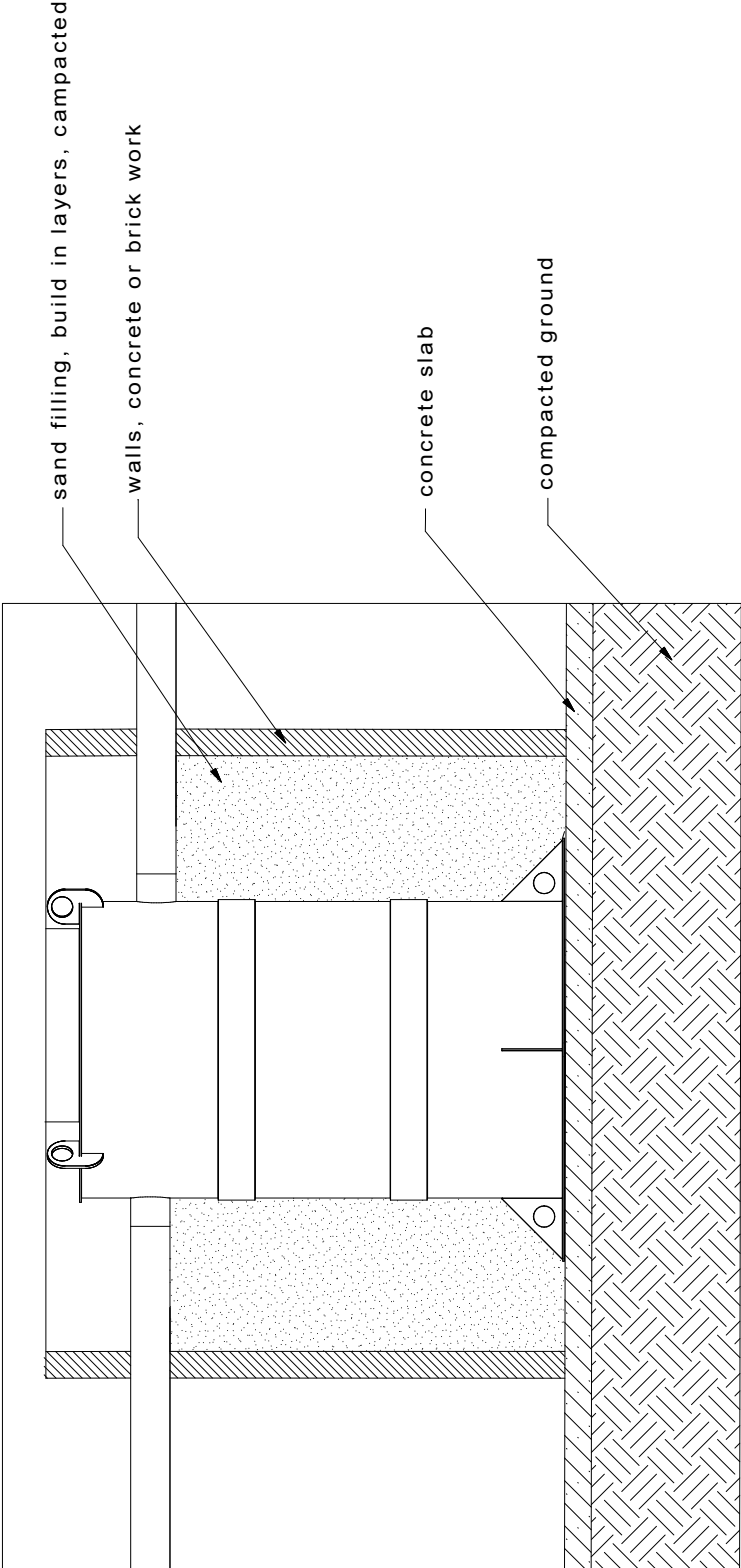
surface lining on top soil
cover, walkable, class A 15
sand filling, build in layers and compacted
ground, untouched

Installation at minor depth.
Separator is not protected against buoyancy!
Separator should be filled with water during placement of sand filling continuously.


| | | | |
|-----------------|--------|-------------------|---------------------------|
| Hersteller: Coe | 070725 | AQUAFIX | Hauraton GmbH & Co KG |
| geprüft von: | 070725 | Anleitung | Werkstraße 13 |
| CoE | 081208 | Umstellung auf PP | D-76437 Rastatt |
| CoE | | Textänderungen | Tel. +49 7222 958 -0 |
| | | | Fax +49 7222 958 -100 |
| | | | www.hauraton.com |
| | | | mail: export@hauraton.com |

INSTALLATION DRAWING

Installation drawing separator from PP
overground installation



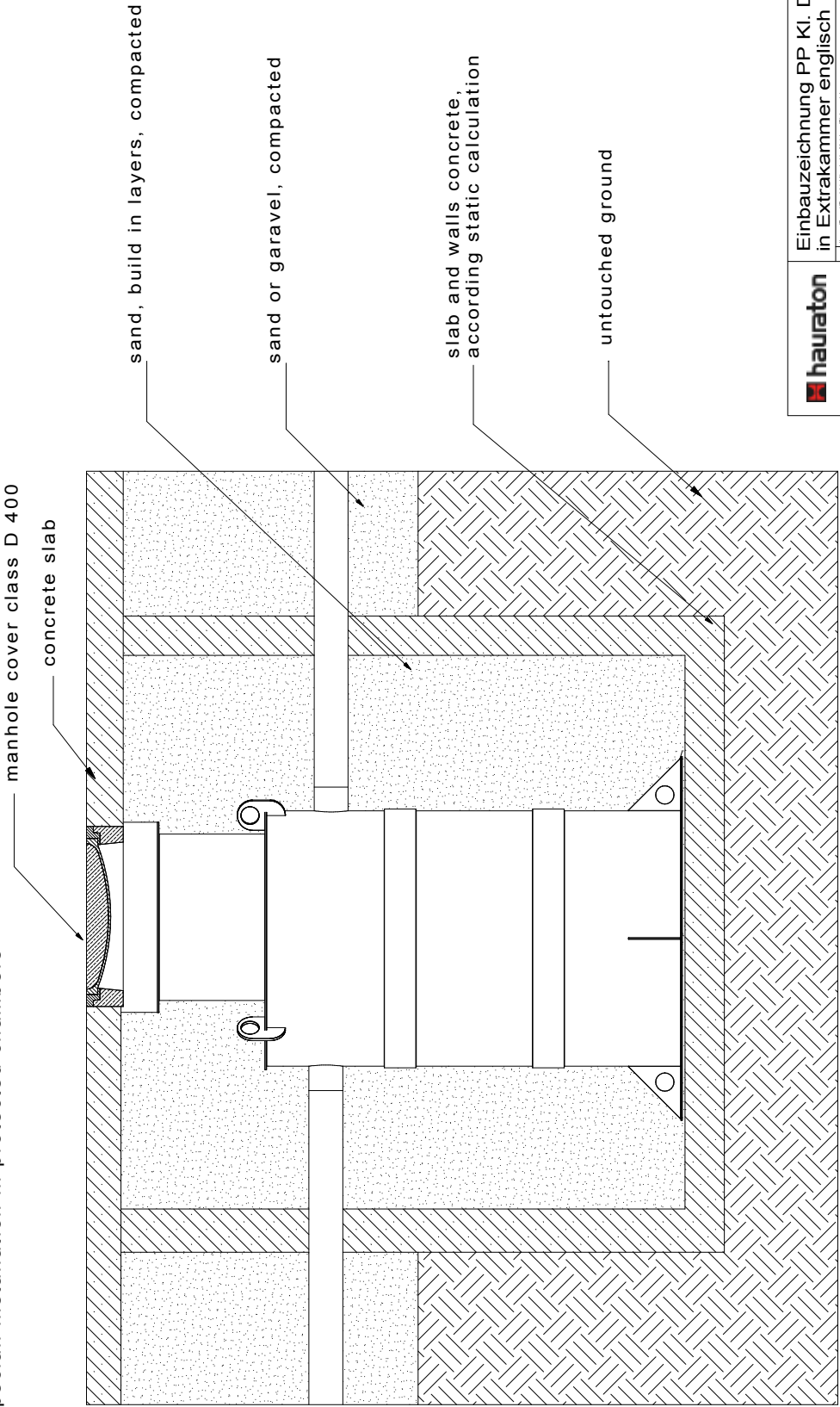
Overground installation
Separator should be filled with water during
placement of sand filling continuously

| | | | |
|---|--------|--|---------------------------|
|  | | Einbauzeichnung PP Kl. A Oberirdisch englisch | |
| Erstellt: Coe | 070725 | AQUAFIX | Hauraton GmbH & Co KG |
| geprüft durch: Coe | 070725 | Umstellung auf PP | Werkestrasse 13 |
| geprüft von: Coe | 081208 | Textänderungen | D-74471 Hauraton |
| | | | Tel +49 7222 958-0 |
| | | | Fax +49 7222 958-100 |
| | | | www.hauraton.com |
| | | | mail: export@hauraton.com |

INSTALLATION DRAWING

Installation drawing separator from PP

Speciall installation in protected chambers



**hauraton**

Einbauzeichnung PP Kl. D
in Extrakammer englisch

Erstellt: Coe

070725

AQUAFIX

gezeichnet von

070725

Unstellung auf PP

Coe

081208

Textänderungen

Hauraton GmbH & Co KG

Werkestrasse 13

D-76437 Haslach

tel. +49 7222 958-0

fax +49 7222 958-100

www.hauraton.com

mail: export@hauraton.com

AQUAFIX® SEPARATORS

INSTALLATION INSTRUCTIONS

SEPARATORS SERIES „PP“ MADE OF POLYPROPYLENE

OPERATION AND MAINTENANCE OF AQUAFIX® LIGHT LIQUID SEPARATORS SERIES „PP“ MADE OF POLYPROPYLENE

□ Before start-up

1. Clean entire system and remove residual mortar, soil etc.
2. Fill sludge trap and separator with fresh water. Please ensure that water level is same in all chambers of tank, and fill in sequence!
3. Re-check joints of system for leaks.

□ Operation

As well as following the maintenance guide, the entire system must comply with the following regulations:

- EN 858 (Light liquid separating systems)
- Local drainage statutes and other instructions

Only sewage that does not have a detrimental effect on the intended operation of the separator must be led into the system. Emulsions and solvents (cold cleaners, drilling and cutting oil, water-soluble hydrocarbons etc.) must not be allowed to enter the separator. Dispose of these materials together with the special waste. Rainwater from surfaces for which the separator was not intended and domestic sewage must not be led into the separator. With coalescence separators: Do not remove coalescence insert during operation!

□ Disposal

Separator must be drained at least every six months, but should not be allowed to fill to more than 85% of its storage capacity. Cleaning must occur more often if the storage capacity of the separator or sludge trap is exceeded. Operation must not be interrupted. All separated material must be drained, cleaned and taken away for disposal by an approved disposal company.

Please empty the separator and the sludge trap of this type of system at the same time if possible. First extract the oil layer from the system and then the layer of water beneath it, into separate tanks if possible. Clean float and seal every time the system is emptied and check operation thereof.

With coalescence separators: If the coalescence material is soiled, remove coalescence material, clean above sludge trap, give damaged coalescence material to disposal company and replace with new material. Replace coalescence material. Re-fill system with fresh water whenever it is emptied and cleaned.



OPERATION AND MAINTENANCE OF AQUAFIX® SEPARATORS SERIES „PP“ MADE OF POLYPROPYLENE

□ Before start-up

Clean entire system and remove any residual mortar, soil etc. if necessary. Fill entire system with fresh water. Check joints of system for leaks.

□ Operation

As well as the maintenance guide, the following instructions must be followed for the entire system:

- EN 1825 Grease separating systems
- Local water removal regulations and other instructions

Only sewage that does not have a detrimental effect on the intended operation of the separator must be led to the separator. It is particularly important to prevent domestic sewage and light mineral liquids from entering the separator. Do not allow rainwater to enter the system.

□ Disposal

1. Grease separators must be cleaned at least once per month, possibly more frequently. Cleaning must take place more frequently if the separator or sludge trap storage capacity is exceeded. The operation of the separator must not be affected.
2. Have all separated material drained, cleaned and taken away by an approved disposal company.
3. Fill entire system with fresh water after it has been emptied and drained.
4. Use mobile ladders when entering the system. Extract vapour/air mixture beforehand. Pay attention to accident prevention regulations!

□ Maintenance

The separator must be serviced at least once per month. The system must be drained and cleaned in order to do this. Carefully check that all system components are in good working order and undamaged. Then refill system with fresh water. **It is extremely important to observe the accident prevention regulations!**

CIVILS

LANDSCAPING

AQUA

SPORT

SPORT

The Product Range for Sports Venues

Version 4.2



The product range for stadiums and sports venues

Modern construction products designed specifically for use in sports venues

The modern German sports arenas have an excellent reputation all over the world. Top-level international competitions such as the Football World Cup or the 2009 World Athletic Championships were held in Germany and showed that our stadiums provide ideal conditions for competitors and fans alike.

HAURATON has been involved with events outside Germany too: at other international sporting events including the Euro Football Championship in Poland and the Ukraine and the 2009 World Handball Championship in Croatia it has been Hauraton's responsibility to install products that will drain playing surfaces reliably. Our specially designed product range for sports facilities is evidence of our extensive competence in this field and has not failed to impress designers, engineers, clients and contractors alike.

HAURATON is member of IAKS





| | | | |
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SPORTFIX®

Perfect drainage - safe past the post.

The comprehensive product range for all sports facilities

Requirements

Water has to be quickly and reliably removed from sports fields and competition areas. The drainage channels that are used have to comply with the latest standards and also meet IAAF requirements. Sports facilities should be designed and equipped to prevent serious injury to sports persons if falls or accidents occur.



Solution

The SPORTFIX range offers products that meet these requirements, e.g. drainage channels made from 100 % recycled PE-PP, soft kerbs with elastic rubber padding, sand traps, water jump kit kits and distribution shafts.

Application areas

- ☐ Sports facilities with synthetic running tracks
- ☐ Sports facilities with artificial grass surfaces
- ☐ Hockey pitches
- ☐ Jumping pits
- ☐ Water jump kits
- ☐ Mini pitches
- ☐ Tennis courts
- ☐ Playgrounds
- ☐ Swimming pools



Side drainage for running tracks



Slotted channel in the middle of the pitch



SPORTFIX slotted channel in the Estádio da Luz



Temporary cable duct in Arsenal FC's Emirates Stadium in London

Bespoke solutions

Estádio da Luz, Lisbon, Portugal: slotted channel with raised turf edge for unimpeded transition to the pitch.

In the stadium which is home to the famous Lisbon football club Benfica the whole interior area was drained using HAURATON SPORTFIX channels. All transitions to the pitch had to be visually unobtrusive and unimpeded – that was the briefing to the team designing the stadium for the final of the Euro Championship. The solution was provided by a SPORTFIX slotted channel designed and manufactured with a turf edge at exactly the same height as the green drainage mats. This product provides a neat separation of the pitch from the surrounding areas and yet is virtually invisible. It goes without saying that surface water is reliably drained away.

Temporary cable duct running the length of the pitch.

FASERFIX SUPER channels with the boltless locking system SIDE-LOCK enable TV cables to be installed very quickly. This guarantees technical reliability while at the same time minimising the risk of tripping over loose cables.



Some HAURATON SPORT references out of thousands:

- ☐ Easy Credit Stadium in Nuremberg, Germany
- ☐ Ceahlăul Stadion in Piatra Neamț, Romania
- ☐ Stadium Zvezdovskij in Moscow, Russia
- ☐ Red Star Stadium in Belgrade, Serbia
- ☐ PGE Arena in Gdansk, Poland
- ☐ National Stadium in Warsaw, Poland
- ☐ Stadium in Wrocław, Poland
- ☐ Multi-function Arena in Poznań, Poland
- ☐ Cenard Stadium in Buenos Aires, Argentina
- ☐ Khalifa Stadium in Doha, Qatar

- ☐ Stadium in Rennes, France
- ☐ MM Arena in Le Mans, France
- ☐ Cardiff City Stadium, UK
- ☐ Wembley Stadium in London, UK
- ☐ FC Emirates Stadium (Arsenal) in London, UK
- ☐ ...

Designers' service package

HAURATON develops innovative products and supports designers of sports venues in the planning and realisation of their projects.

Individual design support

You can contact our field sales staff at any time for expert and qualified advice. On request we will produce CAD-based installation plans for you. We are happy to work out solution proposals for your specific drainage requirements. We also have experience of designing solutions for renovation projects.

Specifications

We are happy to work out project-specific tender proposals for your building project. We need detailed information on the on-site situation for this purpose. Why not give us a call?

Installation advices

General installation advices are available for all products in the HAURATON sport range. These instructions are always included when we ship our products, but we are also happy to send them out in advance.

FASERFIX SUPER channels, RECYFIX channels

FASERFIX SUPER and RECYFIX channels are the perfect solution for draining grandstands and external facilities! FASERFIX SUPER channels are available in nominal widths from 100 to 500 mm and RECYFIX channels from 100 to 300 mm. Gratings are available in different designs and load classes in accordance with EN 1433.

For more information please refer to our catalogues **CIVILS** and **LANDSCAPING**.

Advantages for designers

- ✓ Compliance with all international guidelines as set out by the IAAF
- ✓ Individual design support
- ✓ Service free of charge: hydraulic calculations, installation plans, project-specific tender proposals
- ✓ Latest product information and reference database available online



Members of our team will be pleased to pay you a visit at your office or on site to provide expert advice.

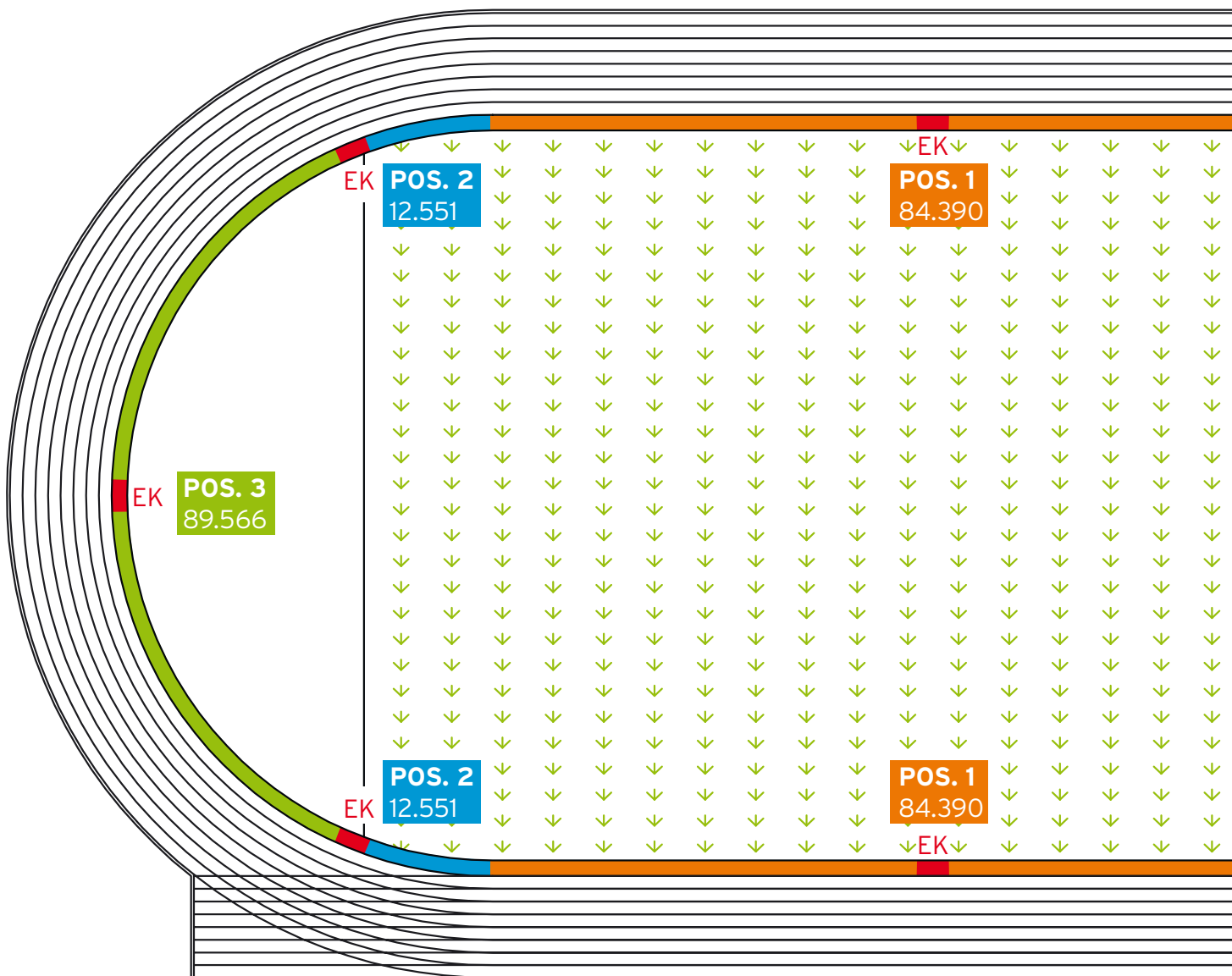
Drainage channels, layout plan

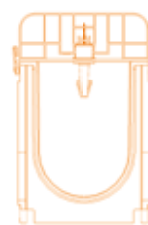
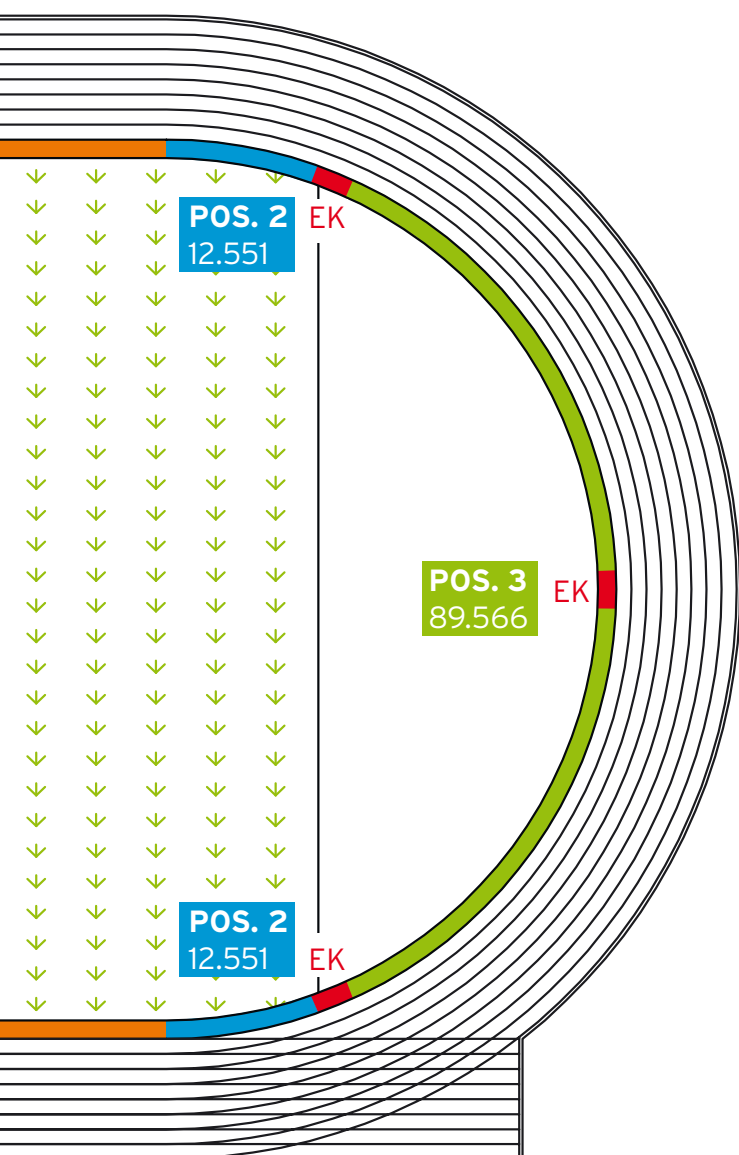
IAAF accredited facilities

Sports facilities for international competitions have to be according the strict guidelines of IAAF to be accepted for the Olympics and all other official championships.

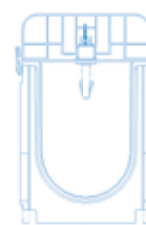
HAURATON provides products for running track drainage which fulfill all demands of IAAF and which allow to create exactly a 400 m running track. That means the SPORTFIX Channels can be used as track limitation. On these sports facilities all achieved records will be acknowledged.

Sample running track which is according the IAAF guidelines





Pos 1



Pos 2



Pos 3

Parts list

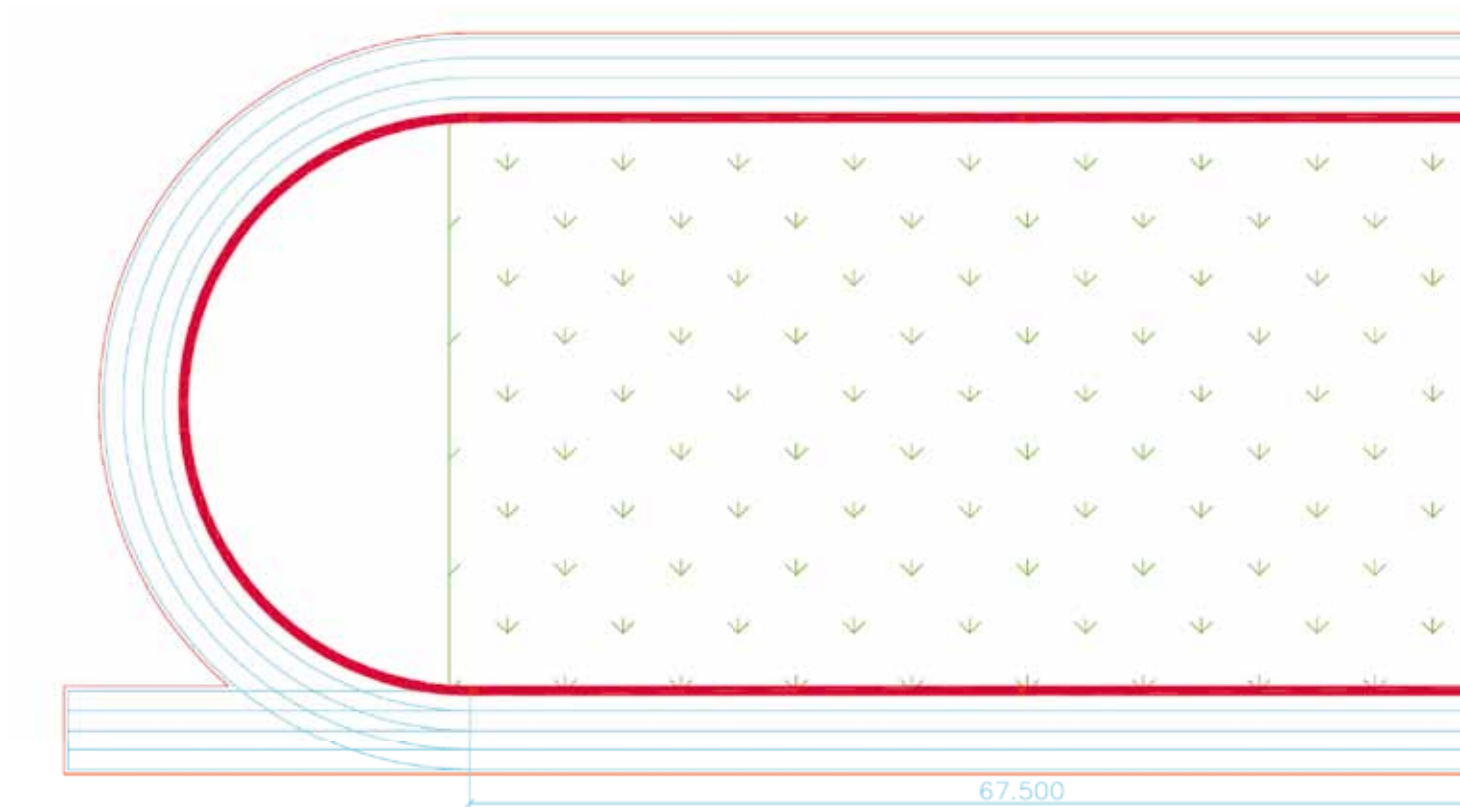
| Number | Designation | Product code |
|--------------|---|--------------|
| Pos 1 | | |
| 168 | SPORTFIX SUPER Slotted Channel with upstand | 7820 |
| 169 | SPORTFIX plastic blank cover, straight | 7563 |
| 2 | SPORTFIX type O trash box | 7830 |
| 2 | SPORTFIX access cover | 7785 |
| Pos 2 | | |
| 50 | SPORTFIX SUPER Slotted Channel with upstand | 7820 |
| 52 | SPORTFIX plastic blank cover, curved | 7564 |
| 4 | SPORTFIX type O trash box | 7830 |
| 4 | SPORTFIX access cover | 7785 |
| Pos 3 | | |
| 178 | SPORTFIX SUPER slotted channel | 7810 |
| 179 | SPORTFIX blank cover, curved | 7564 |
| 2 | SPORTFIX type O trash box | 7830 |
| 2 | SPORTFIX access cover | 7785 |

Drainage channels, layout plan

School sport and public facilities

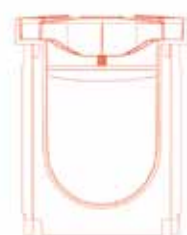
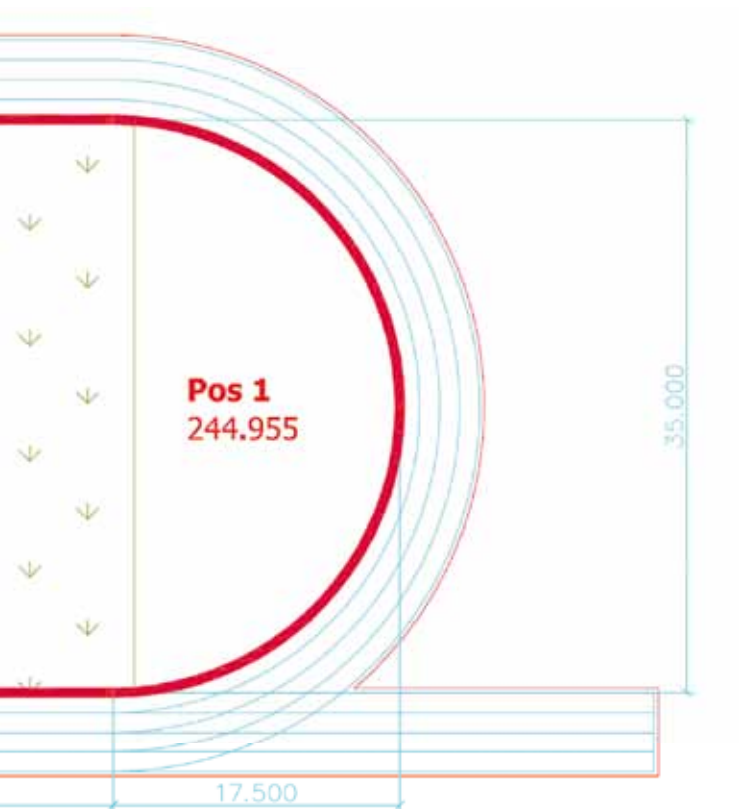
School sport and public sports facilities need not fulfill the IAAF guidelines. Therefore HAURATON can provide alternative products for the track drainage. These products have also top quality but less technical features.

Sample running track for school sport and public facilities



In this sample layout a school sports facility with a running track length of 250 m is shown.

There are hardly limitations in the length of the running track. Just get in touch with us to find out which and how many channels are requested for your sports facility.



Pos 1

Parts list

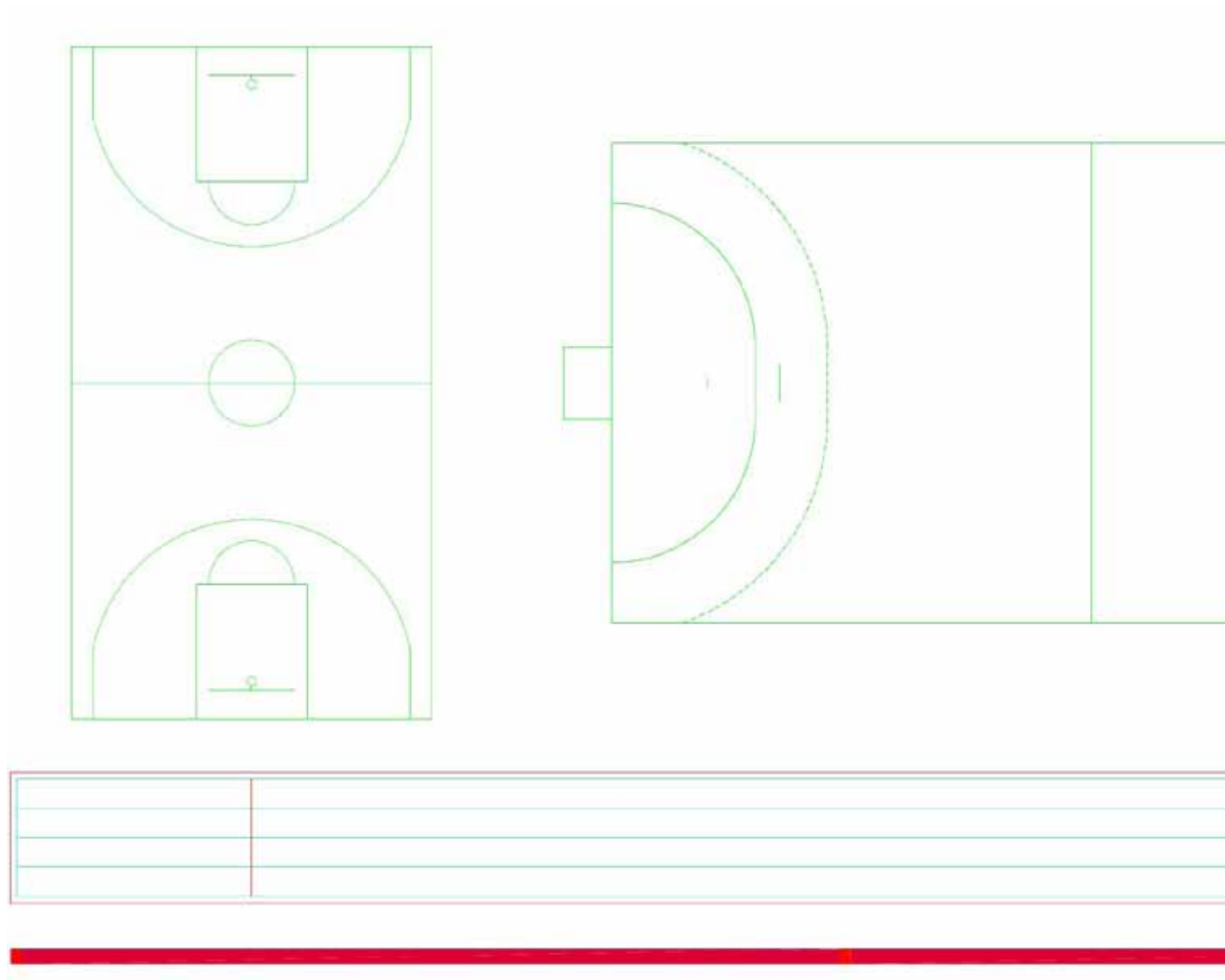
| Number | Designation | Product code |
|--------------|--|--------------|
| Pos 1 | | |
| 244 | RECYFIX PRO 100 Type 010 with FIBRETEC Slotted grating SW 9, black | 47060 |
| 8 | RECYFIX PRO 100 Trash box with mud bucket and FIBRETEC Slotted grating SW 9, black | 7560 |

Drainage channels, layout plan

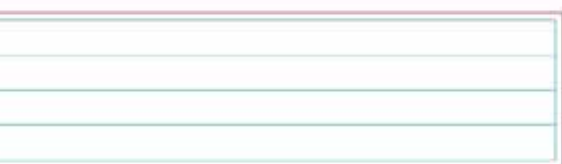
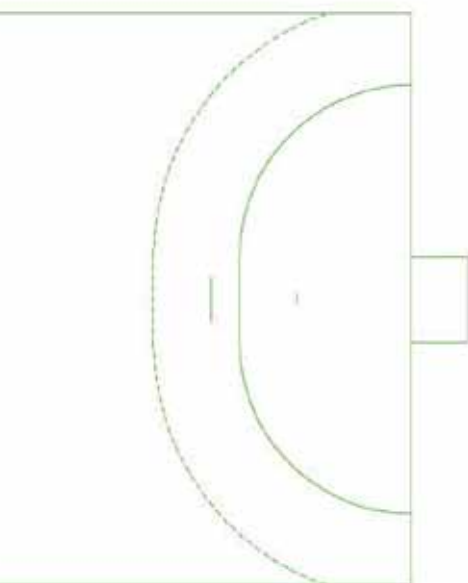
Small sports facilities

Small sports facilities without a complete running track can be drained with standard drainage channels.

Sample running track for small sports facilities



In this sample layout a small sports facility with a running track length of 70.5 m is shown.



Pos 1
70.500



Pos 1

Parts list

| Number | Designation | Product code |
|--------------|--|--------------|
| Pos 1 | | |
| 69 | RECYFIX STANDARD 100 Channel Type 010 with slotted grating, galvanised, cl. A 15, locked | 40296 |
| 3 | RECYFIX STANDARD 100 Trash box with mud bucket and slotted grating, galvanised, cl. A 15, locked | 40256 |

Tricks and hints

Installation

SPORTFIX plastic covers are installed with **3 mm spacing** (= thickness of a folding wooden rule).

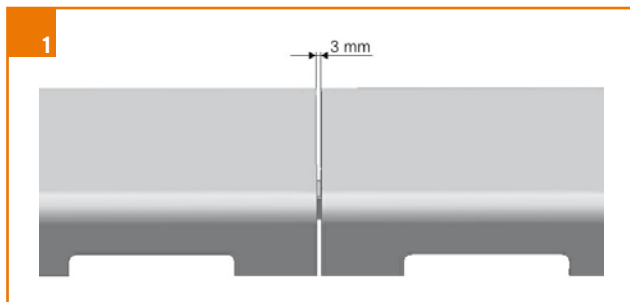


Figure 1: Spacing

Covers are installed in a clockwise direction. The gratings centre one another by means of the black connecting springs. SPORTFIX blank covers have four spring-loaded steel clamps on their underside; these are used to clip the grating into the slotted channel.

Cut to length

SPORTFIX plastic covers can be shortened easily using a wood saw. The cut **must not be made through the side inlet openings**; if necessary, two gratings should be shortened in such a way as to achieve the required length without any cuts in the inlet area.

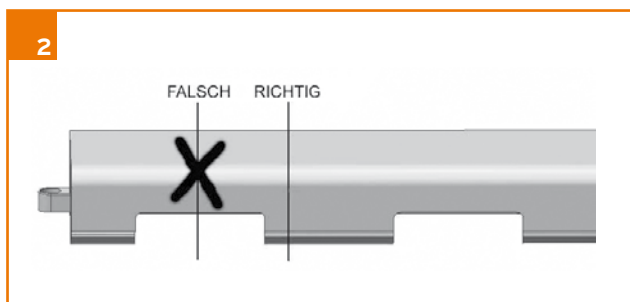


Figure 2: Cutting a plastic cover to length

Installing and connecting different channel types

When installing SPORTFIX channels and SPORTFIX slotted channels there is a height difference at the joining point that needs to be evened out. Using the raised slot in the slotted channel, which joins up superbly with the running track surface, this channel must be set deeper by the thickness of the running track surface (approx. 15 mm).

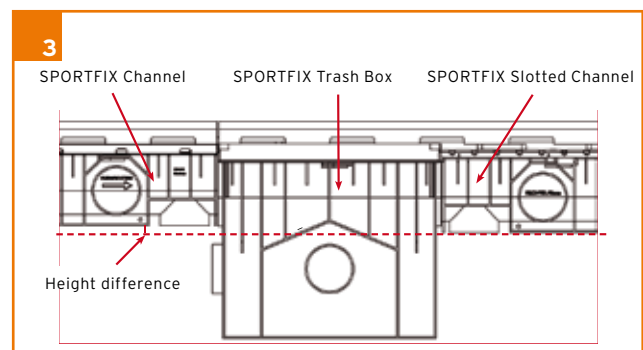


Figure 3: Evening out a height difference

Height adjustment is carried out with the help of an inlet box; the two runs of channel are connected to either side of the inlet box and an inspection cover is installed if necessary (see diagram).

SPORTFIX® drainage solutions



Installation

General installation Instructions

For all channels installed in sports facilities our general installation instructions are valid. We will hand out the latest version of installation advices for every order.

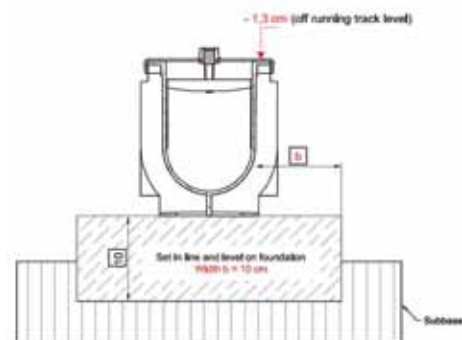
Pictured installation documentation

To get an idea of the correct installation of SPORTFIX Channels you find following a pictured installation documentation.

Step 1: Foundation on subbase



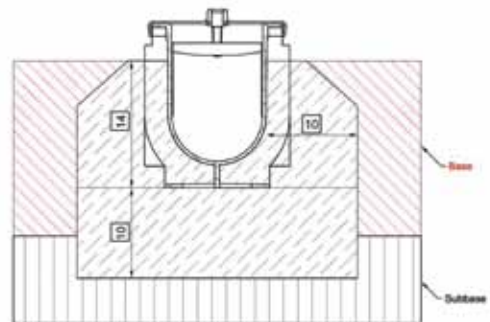
Step 2: Lining and levelling



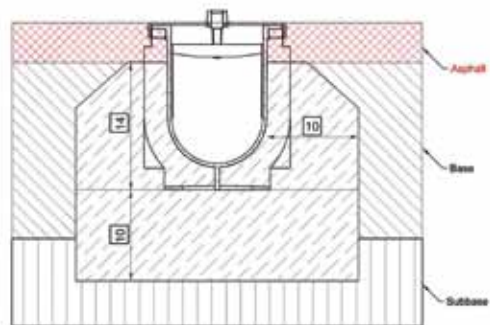
Step 3: Concrete haunching



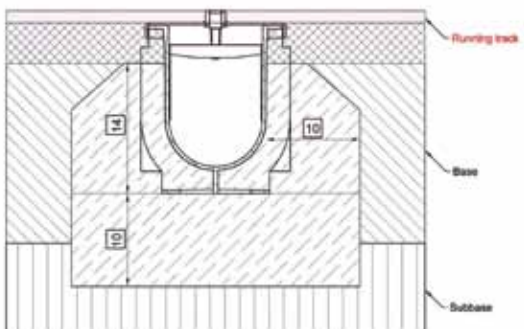
Step 4: Base for surfacing



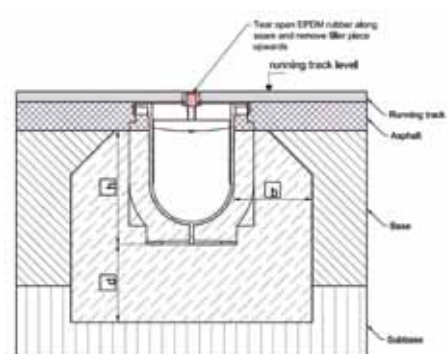
Step 5: Asphalt



Step 6: Running track surface



Step 7: Open drainage slots



SPORTFIX® Channels for IAAF accredited facilities

Perfect drainage - safe past the post.

The comprehensive product range for all IAAF sports facilities





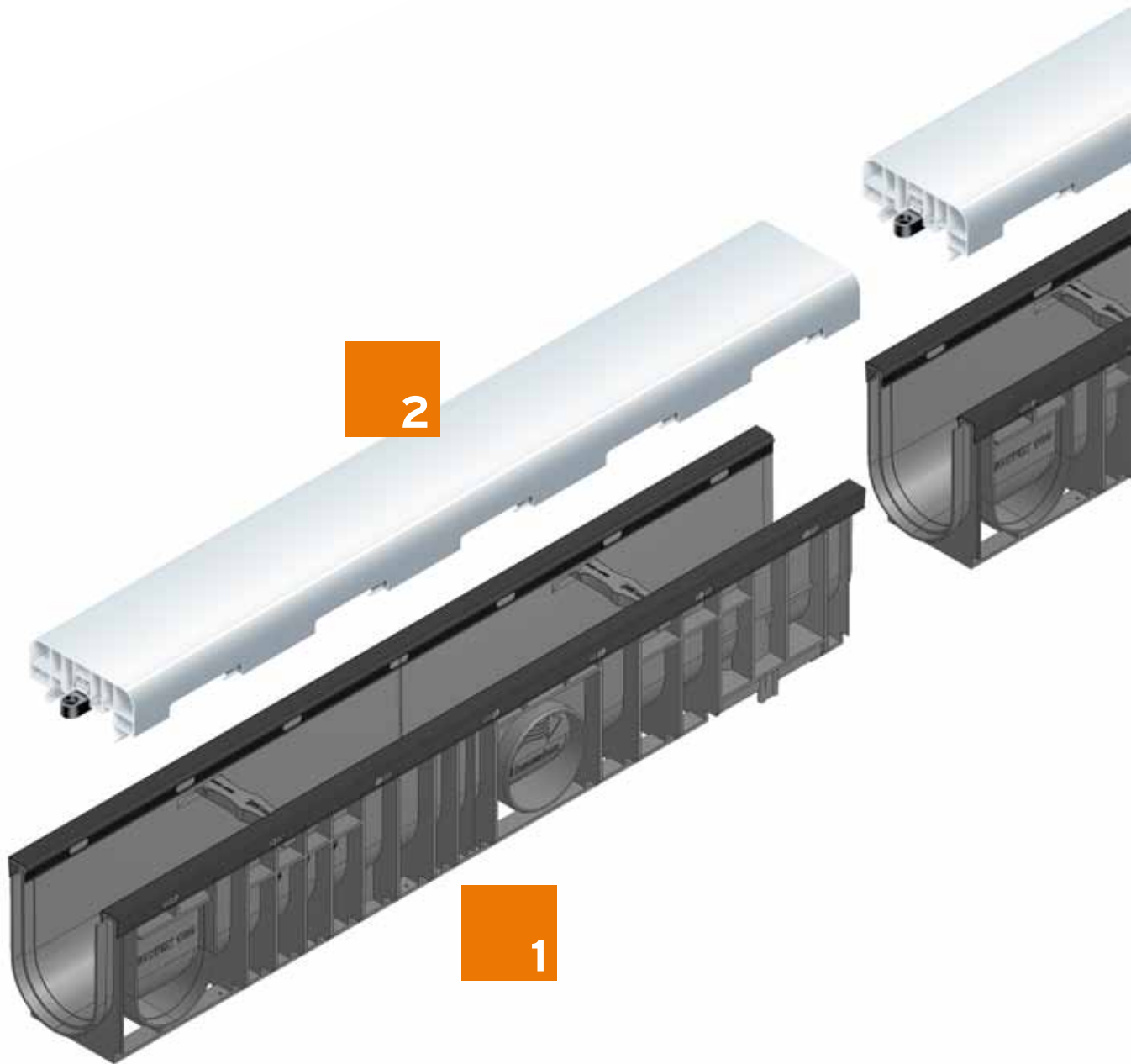
At a glance

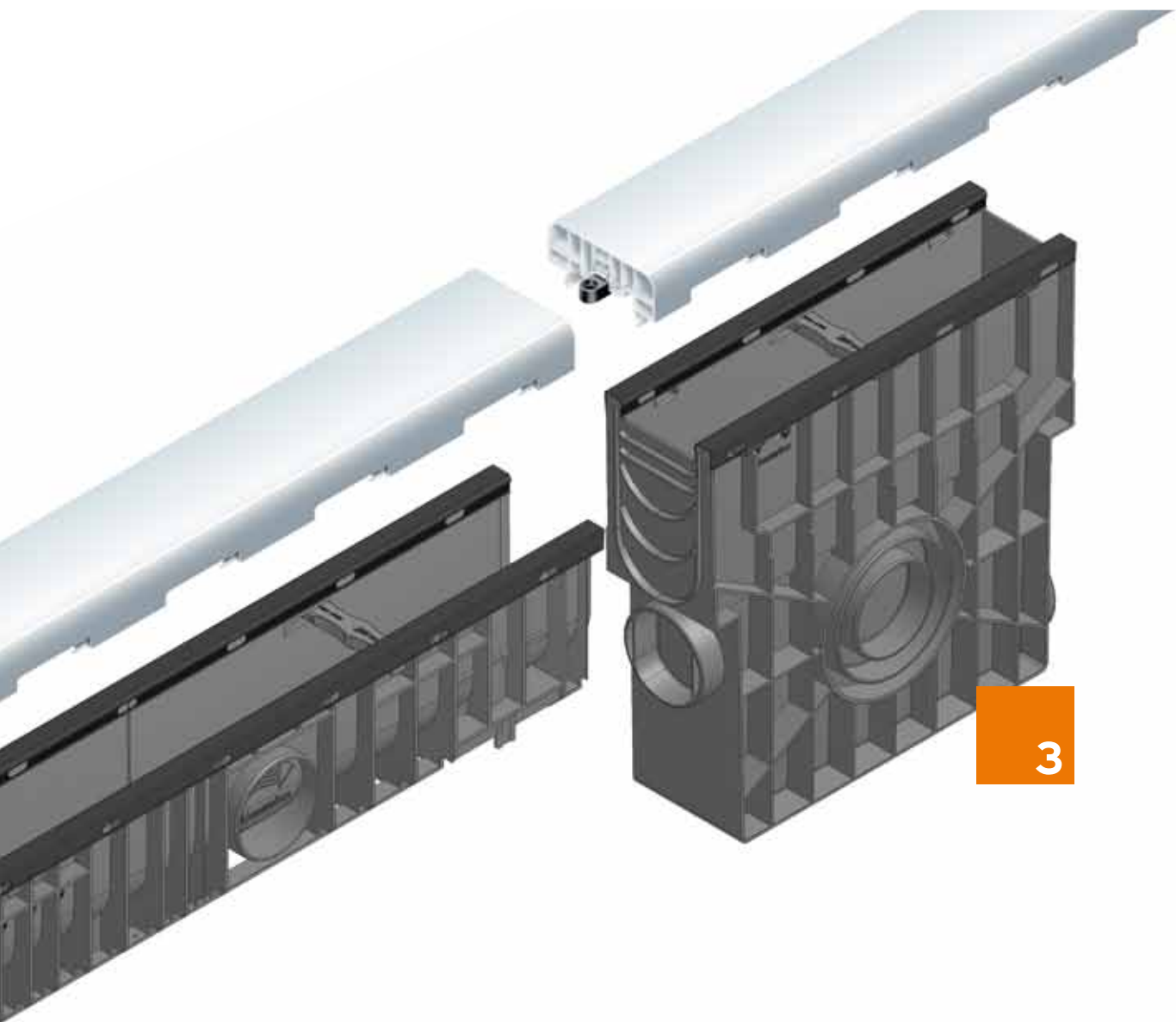
- ✓ Channels made from recycled PE-PP
- ✓ Variety of different ways of draining surfaces and running tracks
- ✓ Products meet IAAF guidelines

SPORTFIX® Channels for IAAF accredited facilities

Perfect drainage - safe past the post.

The comprehensive product range for all IAAF sports facilities.





Material

SPORTFIX channels and trash boxes are manufactured from 100% recycled PE-PP which makes them lightweight and easy to install. The material is highly durable, UV-stabilised, environmentally friendly and impervious to liquids. The top surfaces of the channels are steel-framed; this ensures that gratings lock on securely. The steel frame also enables a permanent join between the track surface and channel.

1

■ SPORTFIX channels made from recycled PE-PP, with tongue and groove connection for precision installation, and with integrated, CDP-coated metal upper edge.

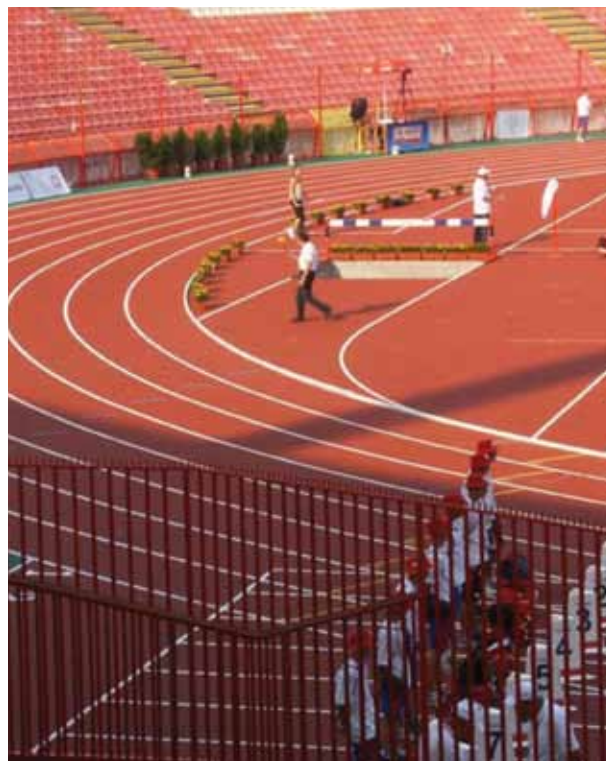
2

■ SPORTFIX plastic cover made from UV-resistant, unbreakable plastic, double-sided inlet with locking springs

3

■ Trash box with facility for connecting a conduit acc. to DN 100/150

References of sports facilities according IAAF guidelines



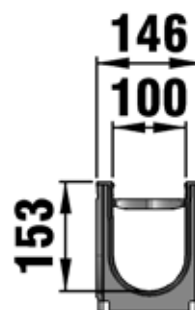
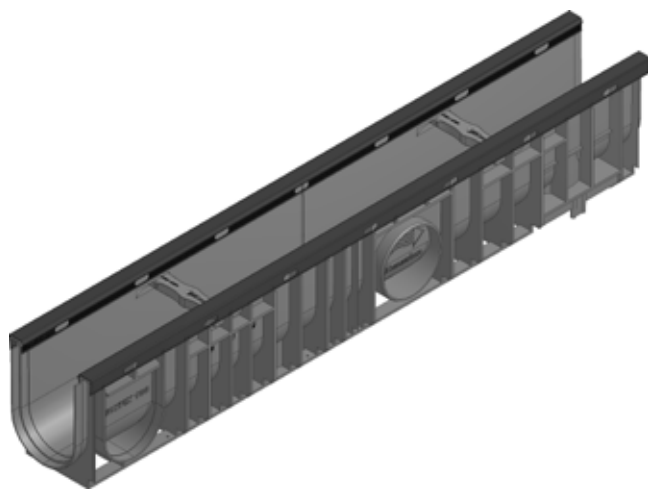
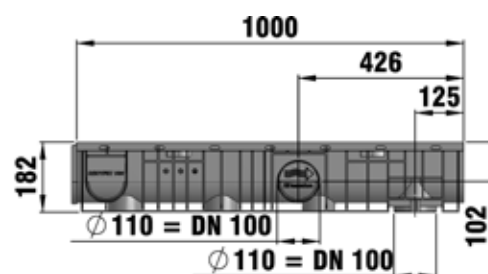
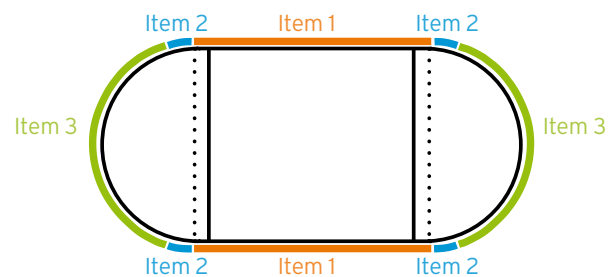
SPORTFIX® Channels

SPORTFIX Channels - nominal width 100 mm

Advantages of SPORTFIX channels:

- ☐ PE-PP material
- ☐ Easy to install
- ☐ UV-resistant
- ☐ Light and very durable

Channel type 010



| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|------|--------------|-------------|--------------|--------------|-----------------|
| 1 | 010 | 1000 | 146 | 153 | 3,1 | 7800 |

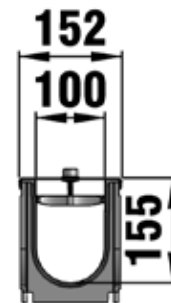
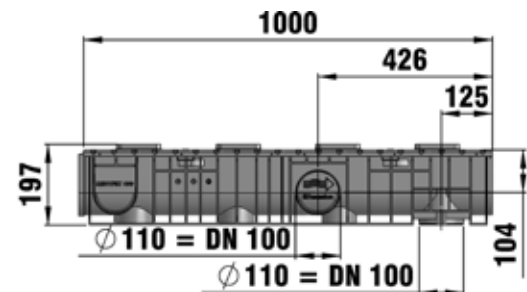
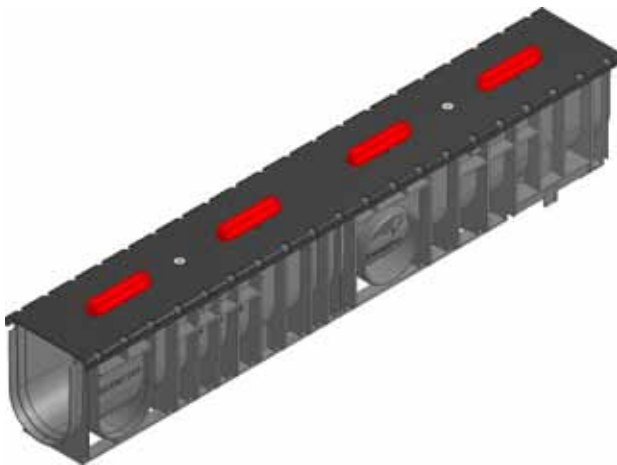
SPORTFIX® Slotted channel

SPORTFIX Slotted channel - nominal width 100 mm

Advantages of SPORTFIX slotted gratings:

- CDP-coated to ensure a perfect join with the running track surface.
- EPDM slots that are easily opened using a screwdriver once the track surface has been laid.

Slotted channel, SUPER



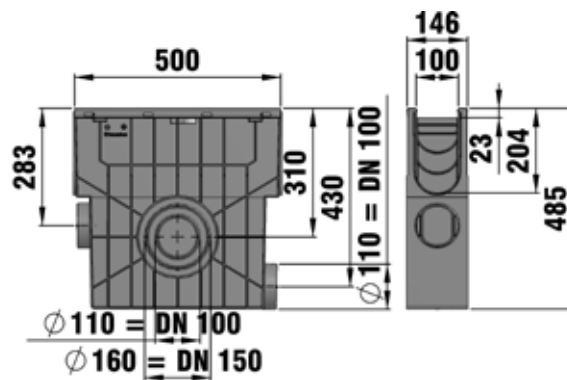
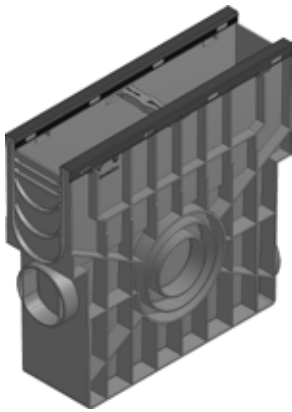
| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|--------------------|--------------|-------------|--------------|--------------|-----------------|
| 3 | SUPER | 1000 | 152 | 197 | 5,8 | 7810 |
| 1 | SUPER with upstand | 1000 | 152 | 198 | 5,9 | 7820 |

SPORTFIX® Trash boxes

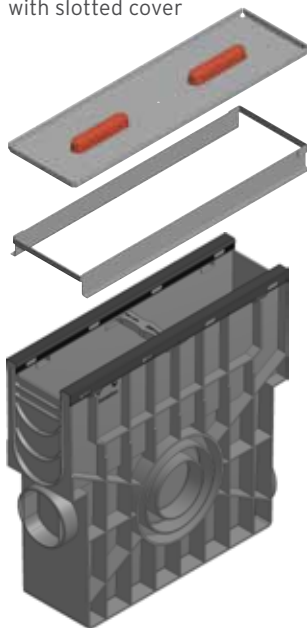
SPORTFIX Trash boxes

In visual terms SPORTFIX trash boxes fit seamlessly with the corresponding channel. The transition from square channel to slotted channel can be achieved easily using an trash box.

SPORTFIX trash box



Inspection grating with slotted cover

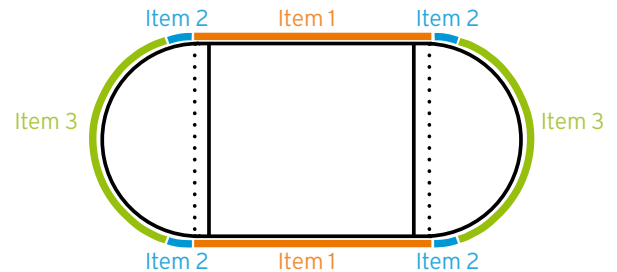


| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|---------|---|--------------|-------------|--------------|--------------|-----------------|
| 1, 2, 3 | Type 0 | 500 | 160 | 415 | 4,4 | 7830 |
| 3 | Access cover for connecting to slotted channels | 500 | 167 | 40 | 2,8 | 7785 |

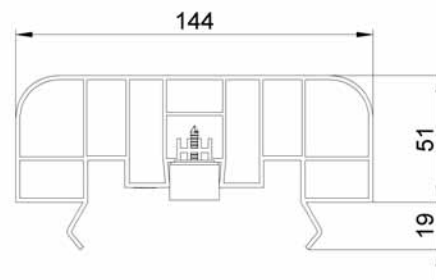
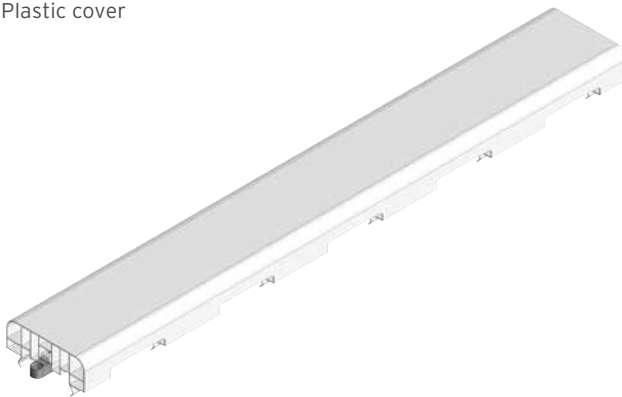
SPORTFIX® Plastic covers

SPORTFIX Plastic covers

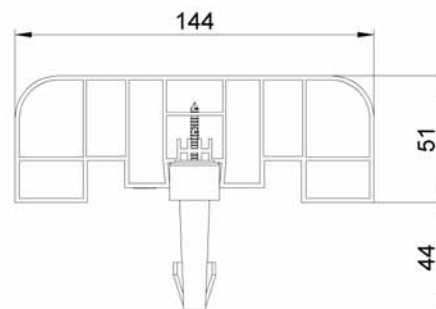
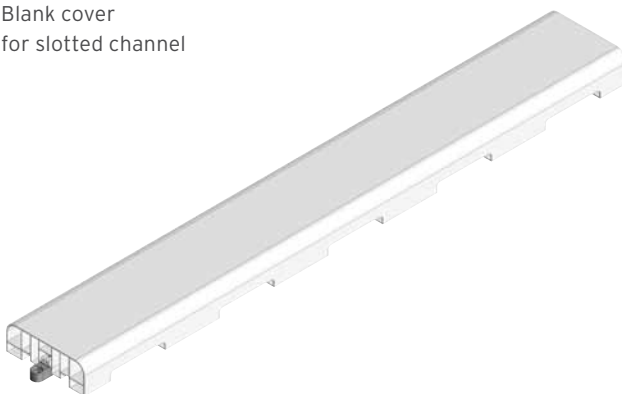
SPORTFIX plastic covers are made from UV-resistant white plastic. They are resistant to frost and gritting material, do not absorb water and are unbreakable. The smooth surface prevents dirt accumulation. SPORTFIX plastic covers are lightweight. They are quick and easy to fit. SPORTFIX plastic covers lock automatically in the lower part of the SPORTFIX channel. The tongue-and-groove system ensure that neat lines are maintained. SPORTFIX blind gratings can be used with SPORTFIX slotted channels.



Plastic cover



Blank cover
for slotted channel



Water flows into the channel on both sides of the cover

| Item | Type | For curved area/radius | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|----------------------|------------------------|-----------|----------|-----------|-----------|--------------|
| 1 | Straight | - | 1000 | 143 | 50 | 1,5 | 7560 |
| 2 | Curved | r = 36.5 m | 1000 | 143 | 50 | 1,5 | 7561 |
| 1 | Blank cover straight | - | 1000 | 143 | 50 | 1,5 | 7563 |
| 3 | Blank cover curved | r = 36.5 m | 1000 | 143 | 50 | 1,5 | 7564 |

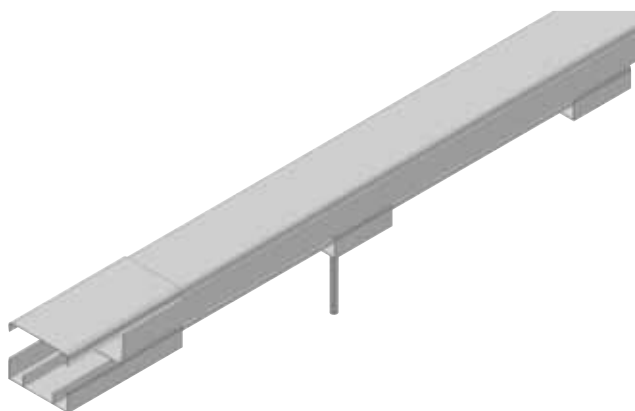
SPORTFIX® Aluminium Frame

SPORTFIX Aluminium Frame

Many different events are held at sports facilities, often demanding moveable boundaries. Such boundaries may be provided and removed easily with SPORTFIX Aluminium Frames.

The SPORTFIX Aluminium Frames are suited for use as a mobile border for running tracks as well as a cover for slotted channels. They are manufactured as a complete unit with integrated push-in elements and fixing pegs.

SPORTFIX Aluminium Frames are made of an aluminium-magnesium alloy. SPORTFIX Aluminium Frames are available either straight or curved, both in 5 m lengths. The frames have an intake on both sides.



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|--|--------------|-------------|--------------|--------------|-----------------|
| SPORTFIX Aluminium Frames, straight | 5000 | 60 | 50 | 6,2 | 7085 |
| SPORTFIX Aluminium Frames, curved, r = any | 5000 | 60 | 50 | 6,2 | 7086 |

SPORTFIX Aluminium frames are not available from stock.

SPORTFIX® Channels for school and public sports facilities

Light and durable track drainage.

Perfect drainage solutions for school sport and public sports facilities.





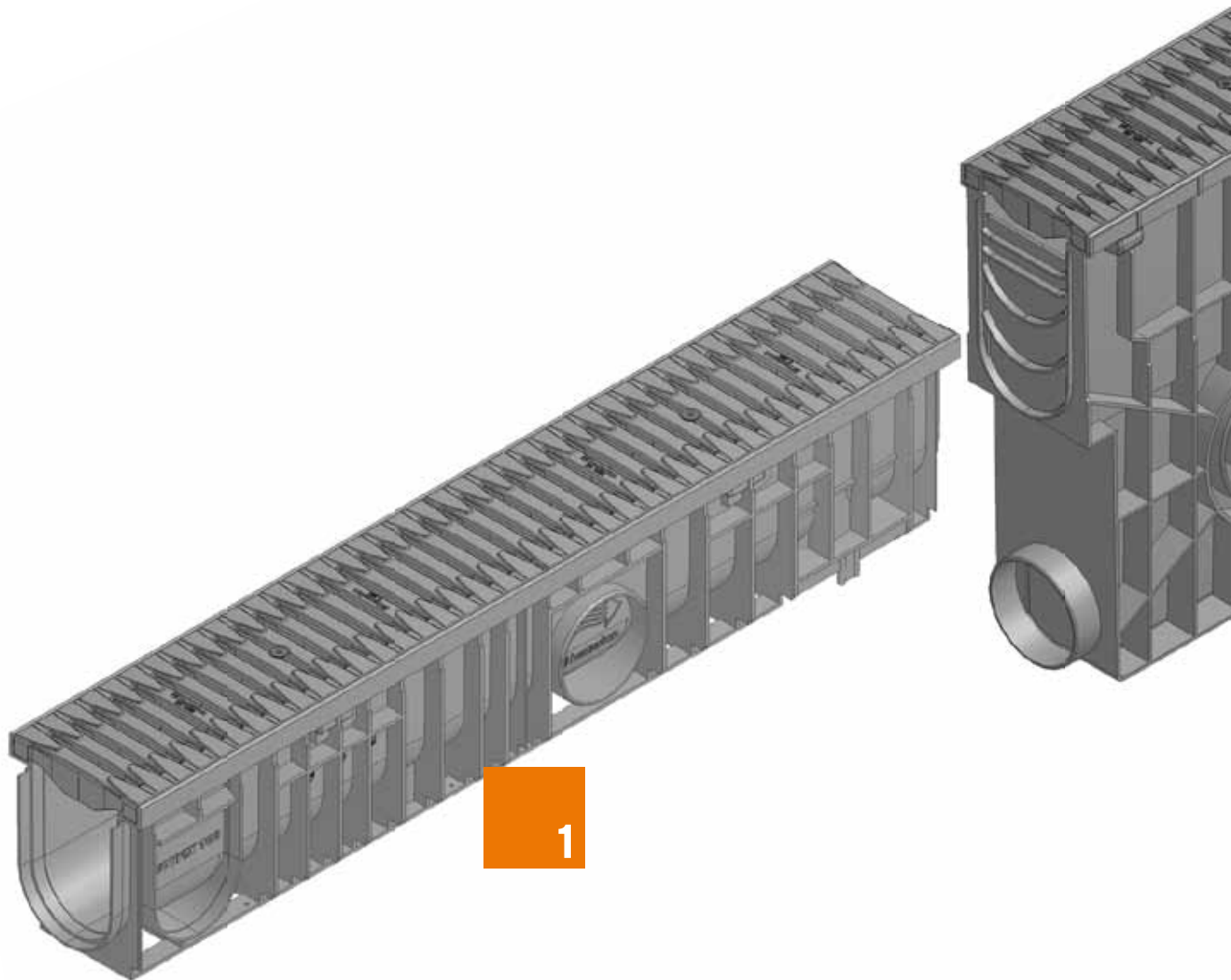
At a glance

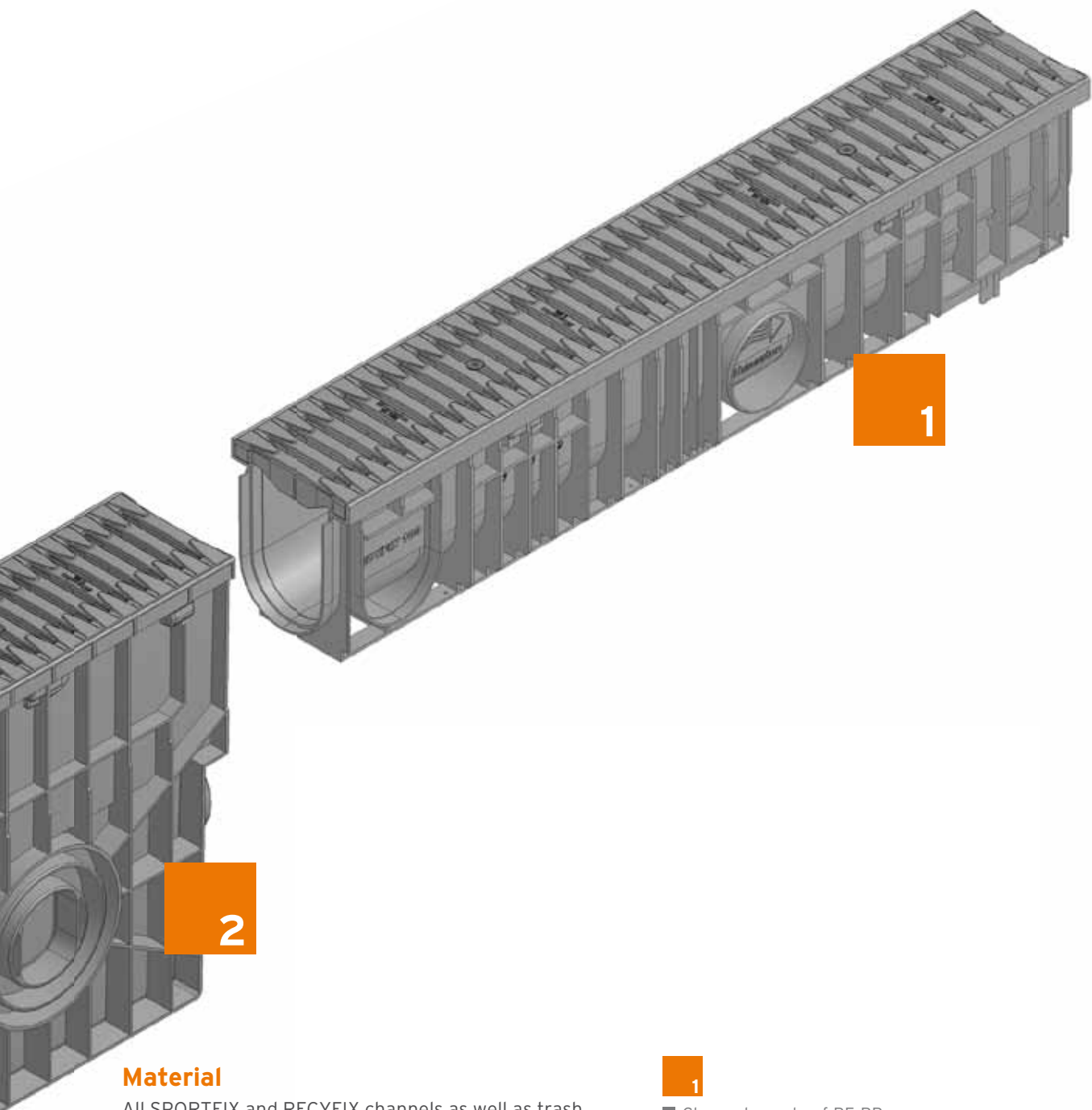
- ✓ Channels made from recycled PE-PP
- ✓ Easy and fast to install
- ✓ Installation in straight and curved areas possible

SPORTFIX® Channels for school and public sports facilities

Light and durable track drainage.

Perfect drainage solutions for school sport and public sports facilities.





Material

All SPORTFIX and RECYFIX channels as well as trash boxes are manufactured from 100% recycled PE-PP which makes them lightweight and easy to install. The material is highly durable, UV-stabilised, environmentally friendly and impervious to liquids.

RECYFIX Channels are available with gratings manufactured from PA-GF (FIBRETEC) and galvanised or stainless steel (Slotted gratings).

SPORTFIX slotted channels come equipped with slotted gratings made from CDP-coated steel. In the case of the SPORTFIX Super slotted channels the inlet slots consist of EPDM inserts, and are initially closed. Once the running track surface has been laid the inserts can be effortlessly opened.

1

■ Channels made of PE-PP, according DIN V 19580 / EN 1433, CE-conform, with groove and tongue with FIBRETEC Slotted grating, slip-resistant, loading capacity C 250

2

■ Trash box with facility for connecting a conduit acc. to DN 100/150

References of school and public sports facilities

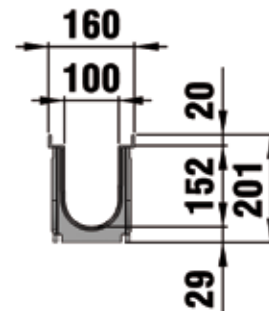
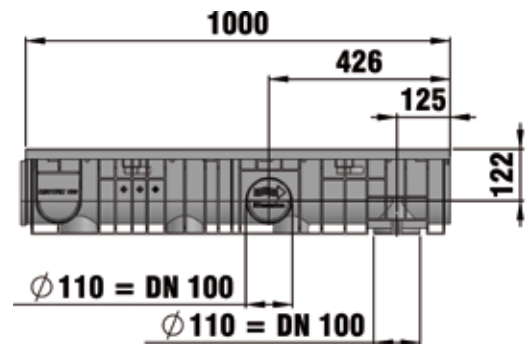
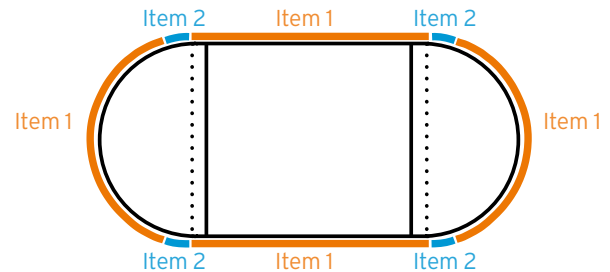
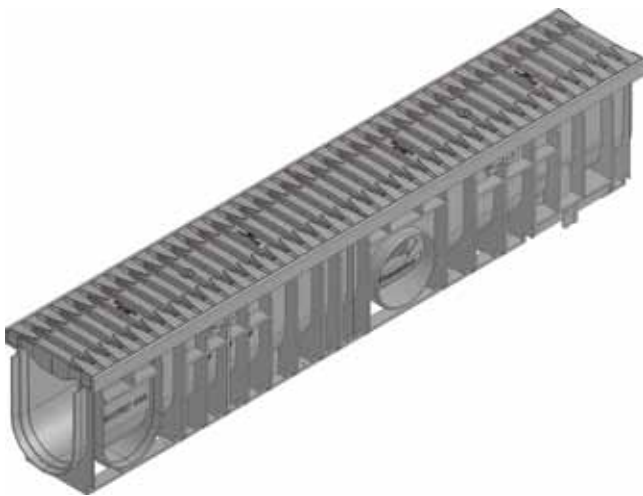


RECYFIX® PRO Channels

RECYFIX PRO Channels - nominal width 100 mm

Advantages of RECYFIX PRO Channels:

- Channel made of PE-PP and grating made of high-quality PA-GF (Polyamide)
- drainage system according EN 1433
- lightweight, robust and easy to install
- through the groove and tongue system there is no gap in the curved area



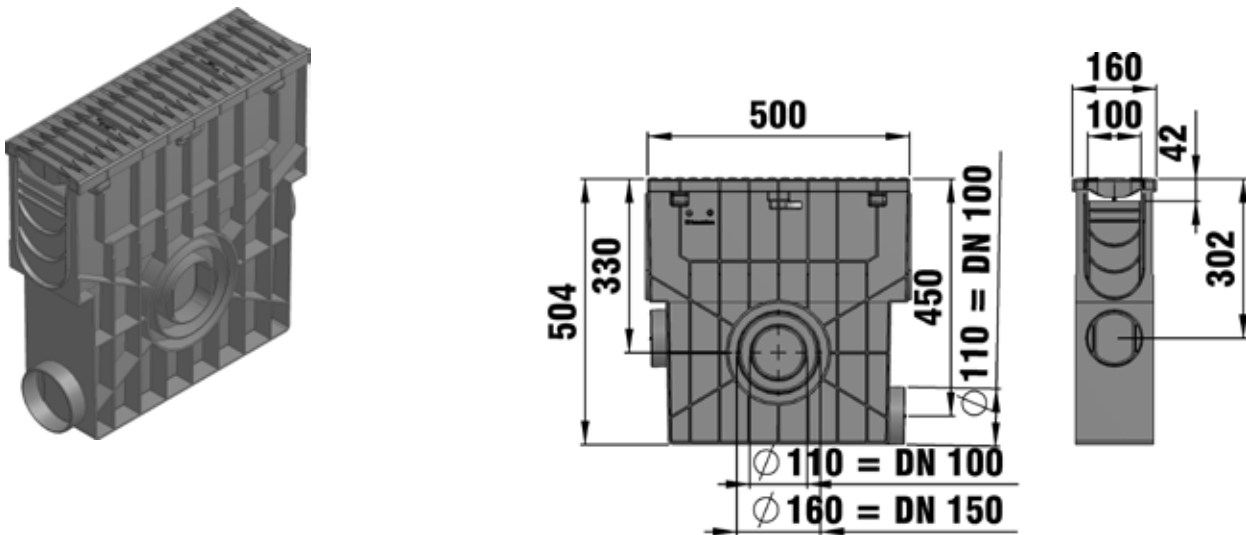
| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|---|--------------|-------------|--------------|--------------|-----------------|
| 1 | Type 010 with FIBRETEC slotted grating, SW 9, black | 1000 | 160 | 201 | 4,9 | 47060 |

The RECYFIX PRO range can be combined with the SPORTFIX Channel range.

RECYFIX® PRO Trash boxes

RECYFIX PRO Trash boxes

RECYFIX PRO trash box



| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|---|--------------|-------------|--------------|--------------|-----------------|
| 2 | Trash box with mud bucket and FIBRETEC slotted grating, SW 9, black | 500 | 160 | 438 | 5,9 | 47054 |

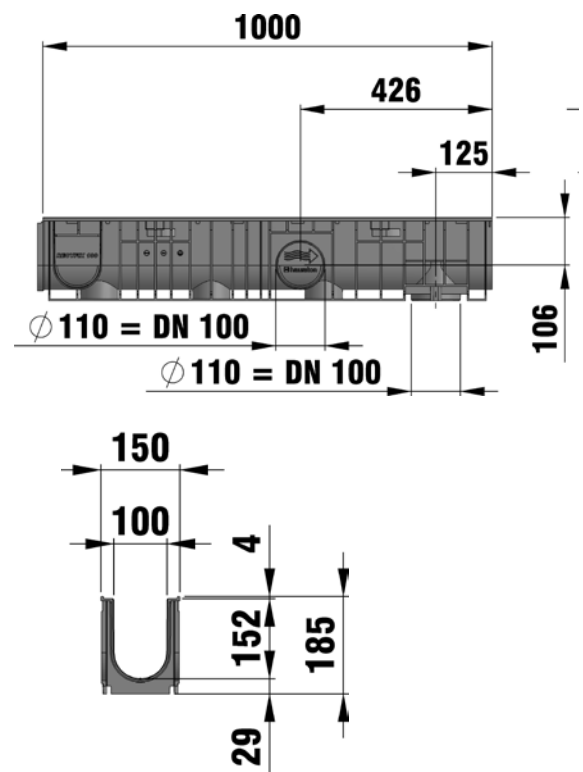
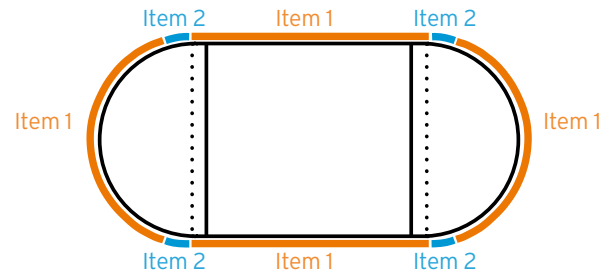
RECYFIX® STANDARD Channels

RECYFIX STANDARD Channels - nominal width 100 mm

Advantages of RECYFIX STANDARD Channels:

- Channel made from recycled polypropylene making it environmentally friendly
- high resistance against frost and road salt
- very light which makes it quick and easy to install

Type 010

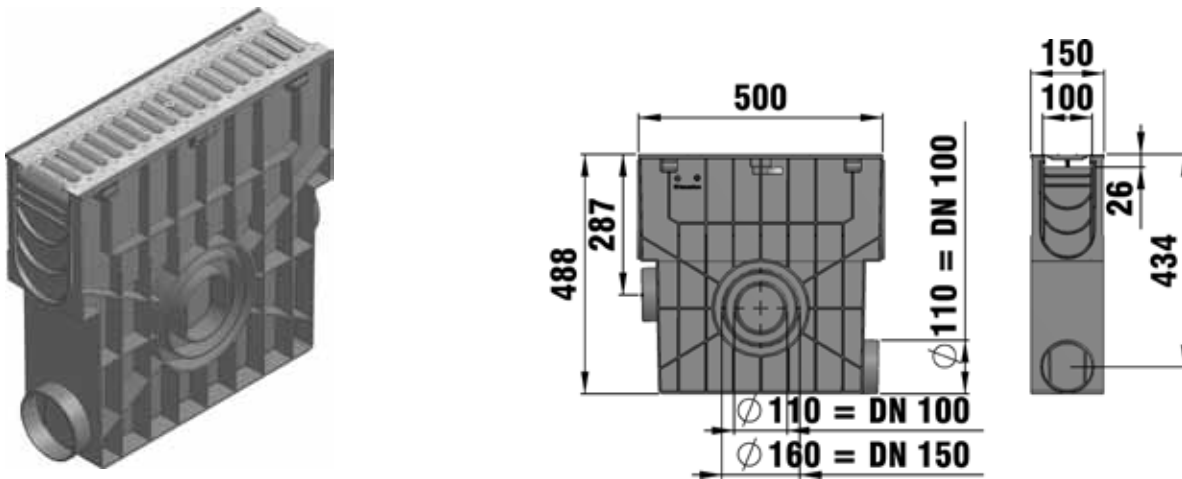


| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|--|--------------|-------------|--------------|--------------|-----------------|
| 1 | Type 010 with slotted grating SW 9, locked | 1000 | 150 | 185 | 5,3 | 40296 |

RECYFIX® STANDARD Trash boxes

RECYFIX STANDARD Trash boxes

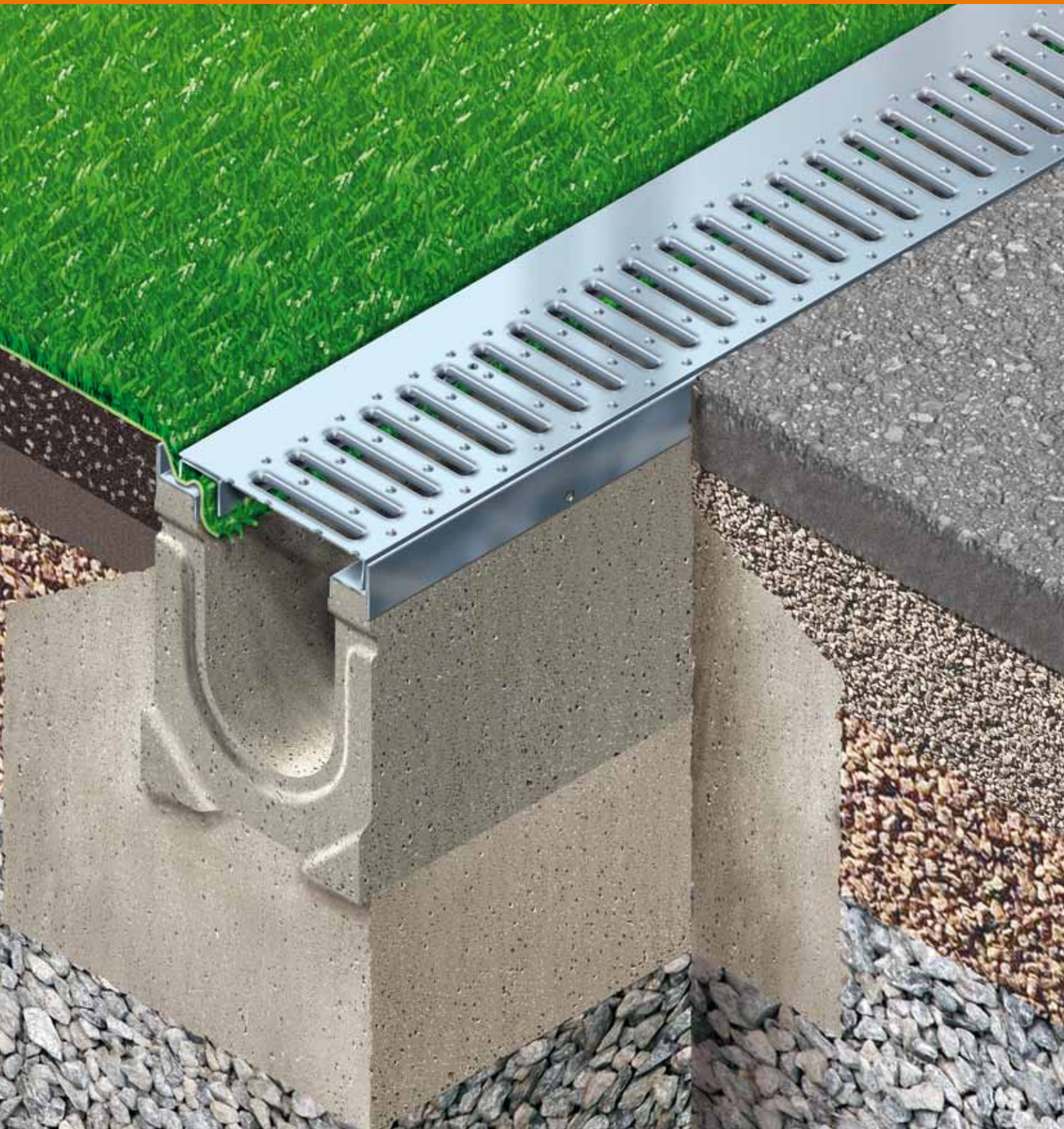
RECYFIX STANDARD trash box



| Item | Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------|---|--------------|-------------|--------------|--------------|-----------------|
| 2 | Trash box with plastic bucket, slotted grating, SW 9, trafficable, locked | 500 | 150 | 488 | 4,3 | 40256 |

SPORTFIX® Channel type PARIS

Tightning different types of artificial turf easily and neatly.
For applications like hockey pitches.





At a glance

- ✓ Channels provide a dual function: drainage and securing artificial turf
- ✓ grating can be removed for cleaning while the artificial turf remains secured

SPORTFIX® Channel type PARIS

SPORTFIX type PARIS - Artificial turf tightening

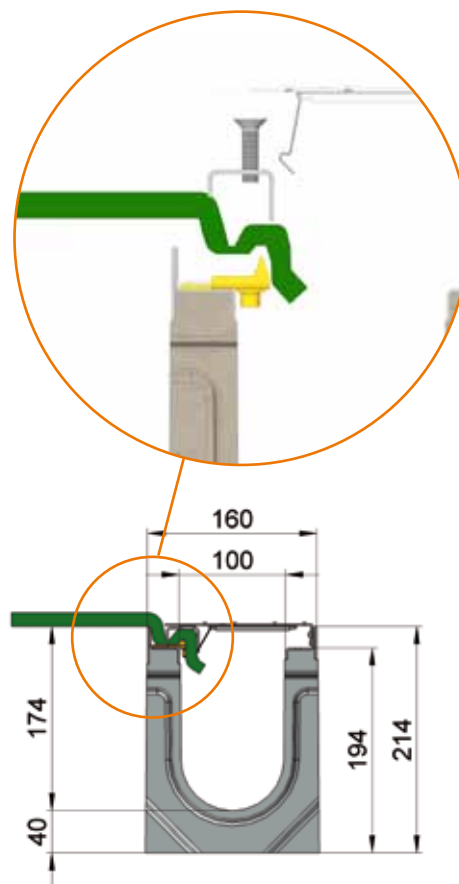
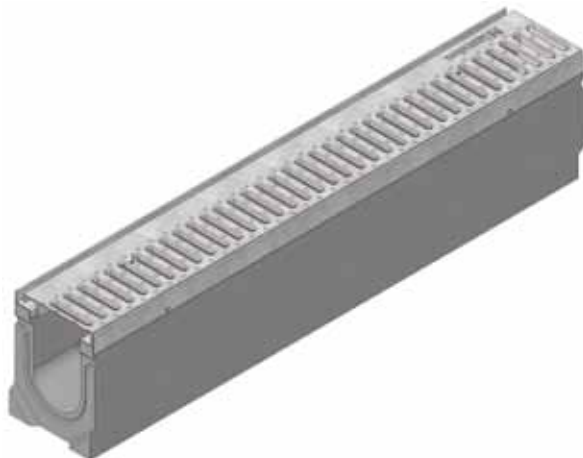
The type PARIS is a system for tightening different types of artificial turf easily and neatly. The system is particularly suitable for hockey pitches. Channels type PARIS and kerbing absorbs considerable tension forces.

The SPORTFIX Channels type PARIS have the dual function of providing drainage of the playing fields as well as tightening artificial turf independently of the grating. The grating can be removed for cleaning while the artificial turf remains fully tightened.

The system is supplied completely with a slotted grating

and clamping strips. When securing the grating into the channel, the two spring fixings are clipped under the edges of the clamping strips. This vandal proof fixing secures the grating without bolts. A whole range of thicknesses of artificial turf may be fixed with the clamping strips.

SPORTFIX channel type PARIS



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|--|--------------|-------------|--------------|--------------|-----------------|
| Channel type PARIS with slotted grating, galvanised | 1000 | 160 | 214 | 43,5 | 7342 |
| Channel type PARIS with slotted grating, galvanised, 0.5 m | 500 | 160 | 214 | 23,0 | 7350 |
| Channel angle type PARIS with slotted grating, galvanised, 90° | 485/645 | 160 | - | 52,0 | 7345 |

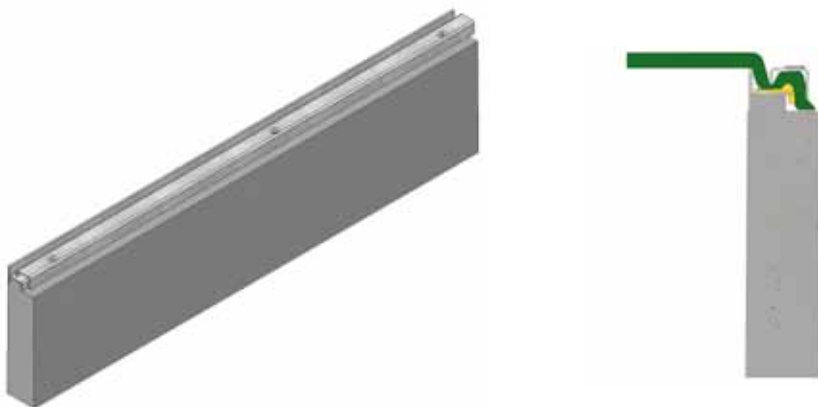
SPORTFIX® Trash box / kerb type PARIS

SPORTFIX inlet box type PARIS



SPORTFIX kerb type PARIS

If drainage is not required, the artificial turf may be tightened with kerbs type PARIS. Here the artificial turf is fixed as described for the channels by a clamping strip. Kerbs type PARIS as well as the channels are supplied with the required quantity of grippers, countersunk bolts to bolt the grippers and countersunk bolts to bolt the clamping strip.



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|-------------------------------------|--------------|-------------|--------------|--------------|-----------------|
| Trash boxes type PARIS | 500 | 160 | 500 | 51,5 | 7352 |
| Kerb type PARIS with clamping strip | 1000 | 60 | 250 | 36,0 | 7310 |
| Type PARIS installation kit | - | - | - | - | 715 |

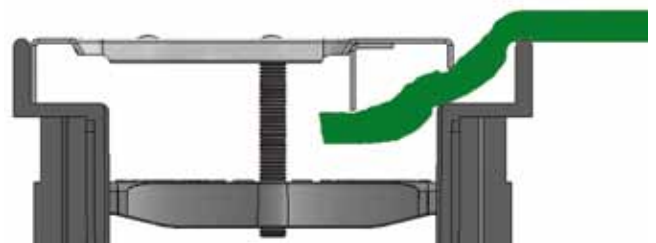
SPORTFIX® Channel type ROME

SPORTFIX type ROME - Artificial turf securing

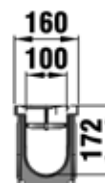
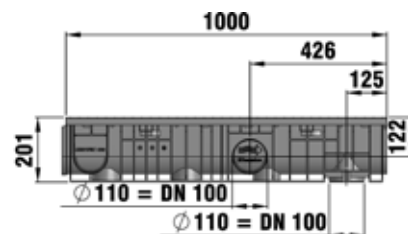
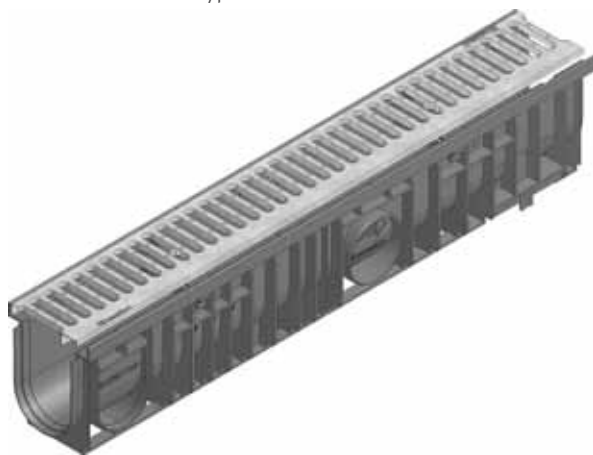
The SPORTFIX channels type ROME are for artificial turf with a thickness between 6 and 18 mm and which needs no tension. With the type ROME channels artificial turf with a higher own weight is used. This kind of artificial turf needs no securing with a clamping strip.

The artificial turf is just layed into the channel and jammed with the slotted cover which is locked with a locking handle (two per metre).

Thickness of artificial turf between 6 and 18 mm.



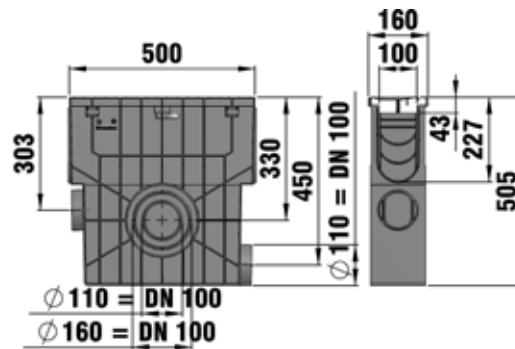
SPORTFIX channel type ROME



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|--|--------------|-------------|--------------|--------------|-----------------|
| Channel type ROME Type 010 with slotted grating, galvanised for artificial turf from 6 to 18 mm height | 1000 | 160 | 201 | 5,4 | 7842 |
| Channel type ROME Type 01005 with slotted grating, galvanised for artificial turf from 6 to 18 mm height | 500 | 160 | 201 | 2,8 | 7849 |

SPORTFIX® Trash box type ROME

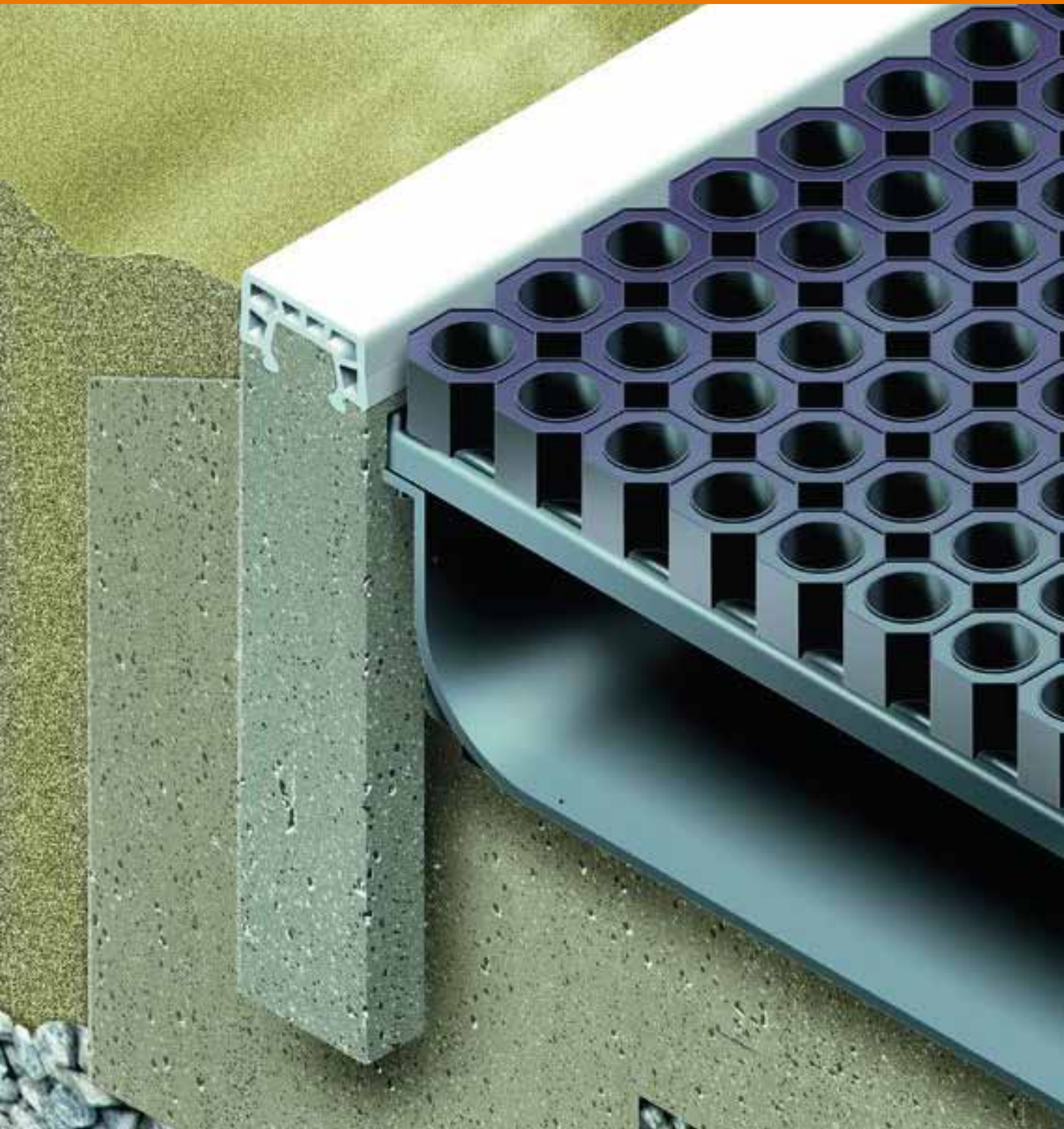
SPORTFIX inlet box, ROME model



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|---|--------------|-------------|--------------|--------------|-----------------|
| Trash box type ROME with slotted grating, galvanised for artificial turf from 6 to 18 mm height | 500 | 160 | 505 | 6,2 | 7850 |

SPORTFIX® Soft kerbs

Used for edging sand pits, sand traps, shot-putting facilities and other sports areas. Rubber cushioned capping minimises risk of injury to athletes.





At a glance

- ✓ Available in black and white
- ✓ Different heights and corner elements available
- ✓ Rubber cushion made of EPDM and air cushions inside to minimise the risk to athletes

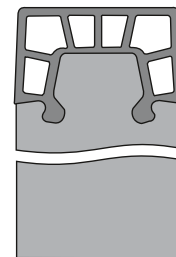
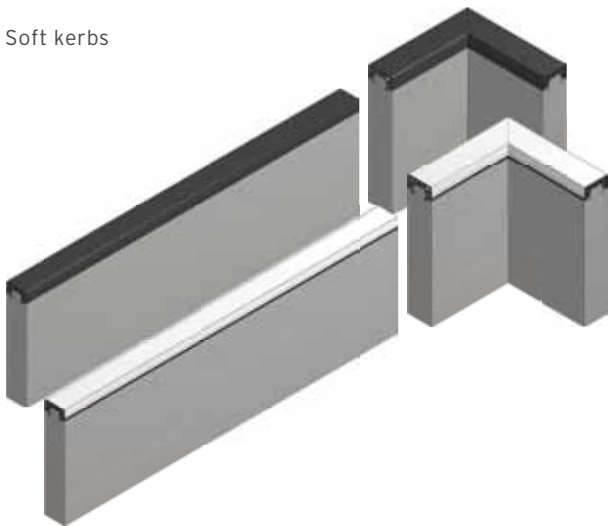
SPORTFIX® Soft kerbs

SPORTFIX Soft kerbs

SPORTFIX soft kerbs with rubber padding are used as boundaries for jumping pits and sand pits, and to define outside edge of a running track. They are also used for permanent delineation of separate areas in sports grounds. The rubber padding protects sportsmen and children from serious injury if they fall. SPORTFIX soft kerbs are made from fibre-reinforced concrete with a 60 mm wide and 30 mm high white or black rubber padding made from ethylene propylene diene monomer

(EPDM). This material is temperature resistant from - 30 °C to + 100 °C and extremely flexible. The padding considerably reduces the risk of injury to sportsmen and children. SPORTFIX soft kerbs are available in heights ranging from 200 to 400 mm and can be shortened if required. Matching angle pieces ensure precision corner joints.

Soft kerbs



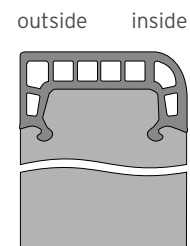
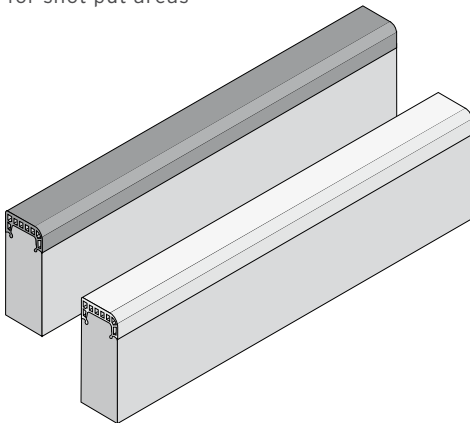
| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|---------------------|--------------|-------------|--------------|--------------|-----------------|
| white | 1000 | 60 | 200 | 24,0 | 7200 |
| white | 1000 | 60 | 250 | 30,0 | 7201 |
| white | 1000 | 60 | 300 | 36,0 | 7202 |
| white | 1000 | 60 | 400 | 49,0 | 7203 |
| white | 500 | 60 | 400 | 24,5 | 7204 |
| Angle pieces, white | 250/250 | 60 | 300 | 16,4 | 7208 |
| Angle pieces, white | 250/250 | 60 | 400 | 21,5 | 7209 |
| black | 1000 | 60 | 200 | 24,0 | 7220 |
| black | 1000 | 60 | 250 | 30,0 | 7221 |
| black | 1000 | 60 | 300 | 36,0 | 7222 |
| black | 1000 | 60 | 400 | 49,0 | 7223 |
| black | 500 | 60 | 400 | 24,5 | 7224 |
| Angle pieces, black | 250/250 | 60 | 300 | 16,4 | 7228 |
| Angle pieces, black | 250/250 | 60 | 400 | 21,5 | 7229 |

SPORTFIX® Soft kerbs for shot put areas

SPORTFIX Soft kerbs for shot put areas

For shot put areas we recommend wider SPORTFIX soft kerbs. The design and materials are the same as the soft kerbs for jumping pits and sand pits. The SPORTFIX soft kerb rubber padding for shot put areas is 100 mm wide and 50 mm high. The 250 mm high soft kerb is available in white or black.

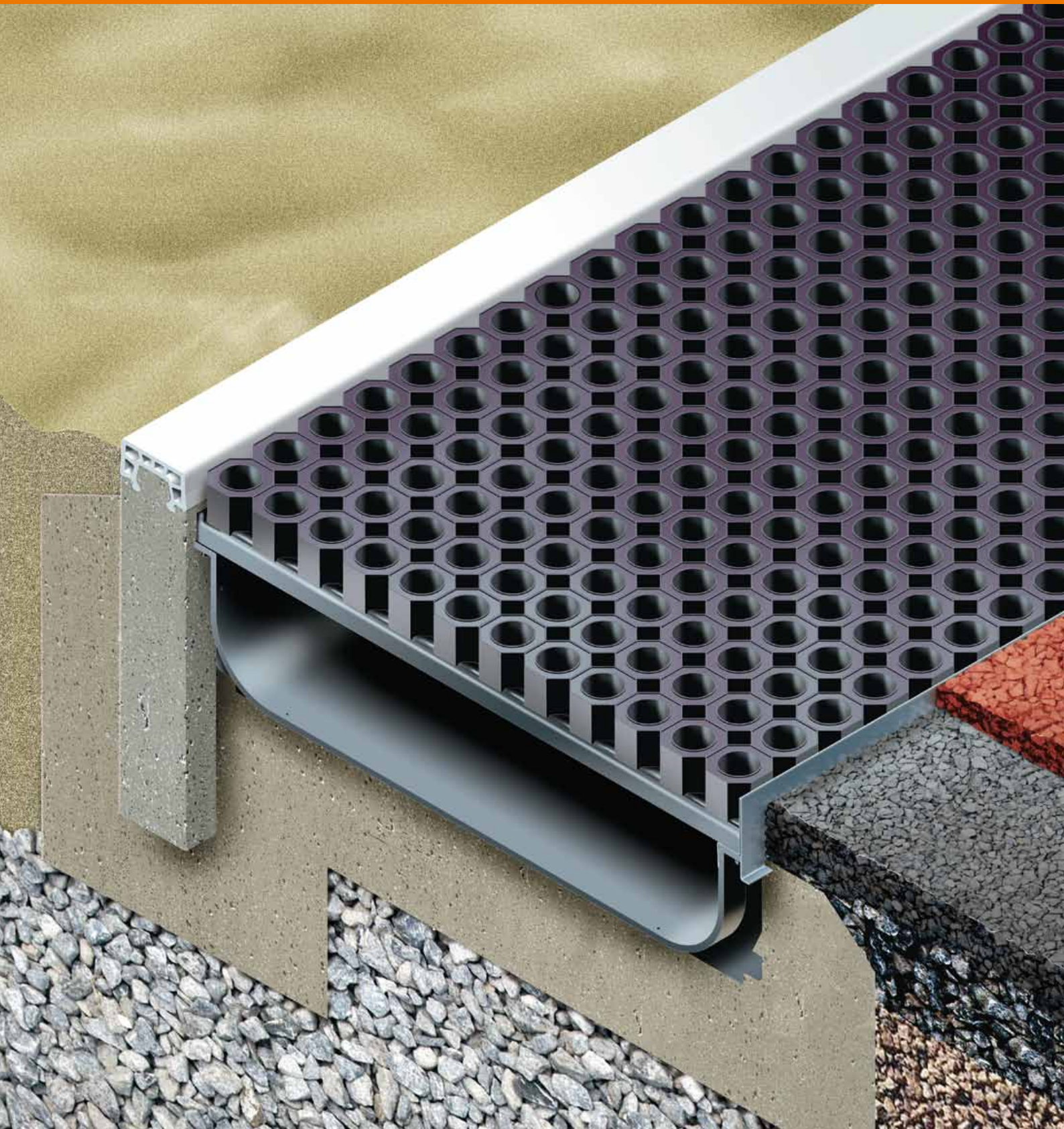
Soft kerbs for shot put areas



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|-------|--------------|-------------|--------------|--------------|-----------------|
| black | 1000 | 100 | 250 | 53,0 | 7232 |
| white | 1000 | 100 | 250 | 53,0 | 7237 |

SPORTFIX® Sand traps

Prevents athletes from spreading sand on to the running track.
Allows different sand pit sizes according to IAAF guidelines.





At a glance

- ✓ base section made of PE-PP
- ✓ expanded metal grating and rigidly mounted rubber mat on top
- ✓ Single and double width installation possible

SPORTFIX® Sand traps

SPORTFIX Sand traps

FASERFIX sand traps prevent sportsmen from spreading sand onto the adjacent running track when they are leaving sand pits. Sand can cause damage to synthetic surfaces. The lower sections of the SPORTFIX sand traps are made from polypropylene. They are 500 mm wide and 500 or 1000 mm in length. Provision for a DN 100 connection is prefabricated.

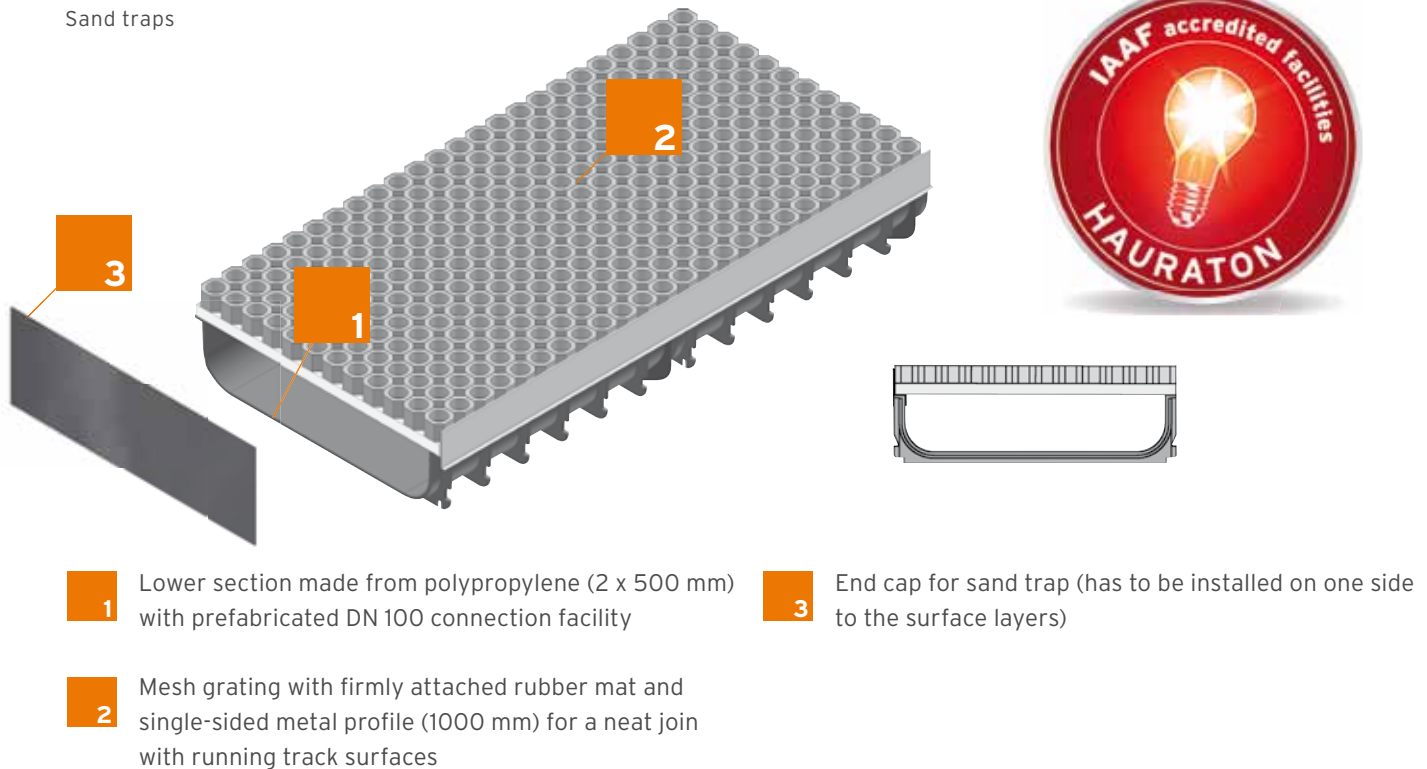
The SPORTFIX sand traps are fitted on one side with a metal profiled edge. This profile allows a neat join to an adjoining running track surface. The sand traps are supplied complete with a mesh grating and fixed rubber mat. Galvanised end walls are also available as accessories. SPORTFIX sand traps can be installed singly or as a double row. When sand traps are installed in two rows, the result is a protected area 1 m in width around the jumping pit. In accordance with the latest IAAF Competition Rules 2009 a width of between 2.75 and 3.0 m must be maintained for the long jump area. The area may be even wider, in which case it can be delineated simply for competitions using tape.

The IAAF Technical Manual 2008 stipulates that the long jump area must have a minimum width of 2.75 m, and must be between 7 m and 9 m in length. It goes without saying that SPORTFIX sand traps and soft kerbs conform to these specified dimensions.



SPORTFIX® Sand traps

Sand traps

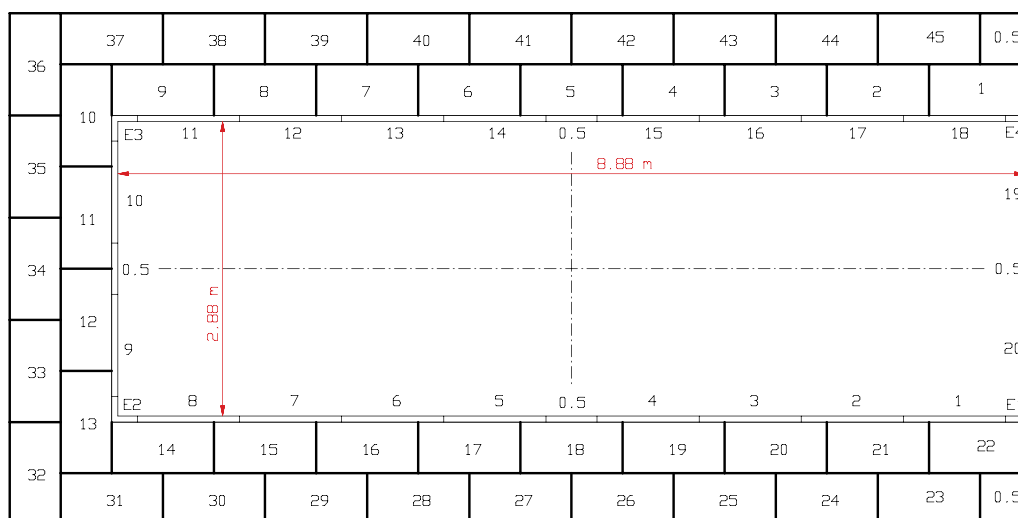


Jumping pit with sand trap 2.88 m x 8.88 m in accordance with IAAF specifications

Soft kerbs: 20 x 1 m + 4 x 0.5 m + 4 corner pieces 0.25 m x 0.25 m

SPORTFIX sand trap: "Single" 22 x 1 m

SPORTFIX sand trap: "Double" 45 x 1 m + 2 x 0.5 m

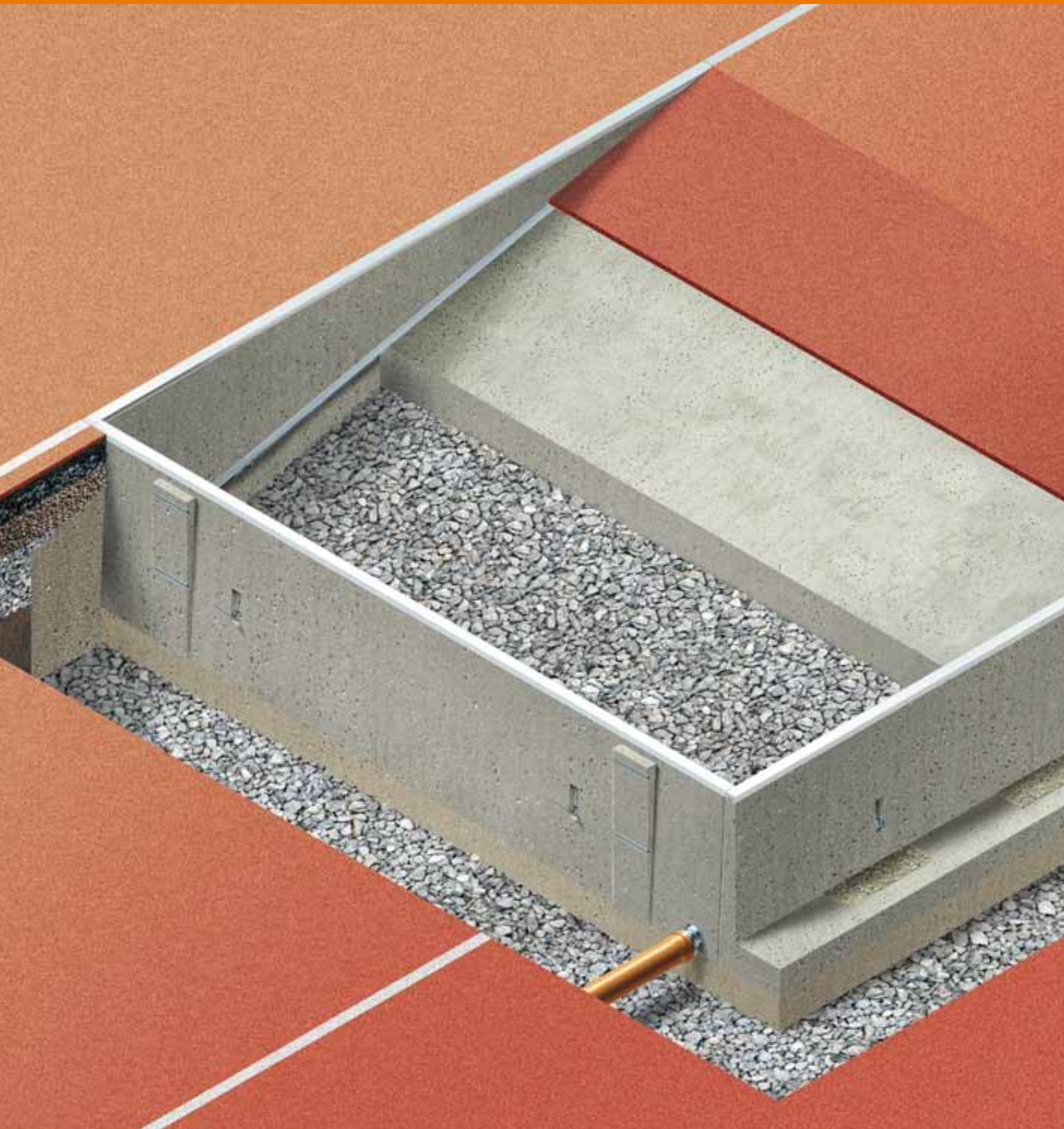


| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|----------------------|--------------|-------------|--------------|--------------|-----------------|
| Sand trap 2 x 500 mm | 1000 | 500 | 163 | 16,8 | 7740 |
| Sand trap | 500 | 500 | 163 | 8,8 | 7745 |
| End cap | - | 500 | 175 | 0,5 | 7248 |

SPORTFIX® Water jump kit

Water jump for steeplechases according IAAF requirements.

3-parted construction for quick and easy installation with EPDM protection profiles.





At a glance

- ✓ Supplied in 3 sections
- ✓ upper edges provided with EPDM soft profiles to avoid injuries
- ✓ adjustable, galvanised rail on both sides

SPORTFIX® Water jump kit

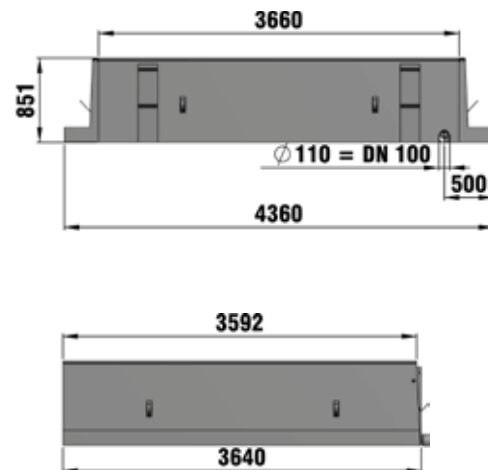
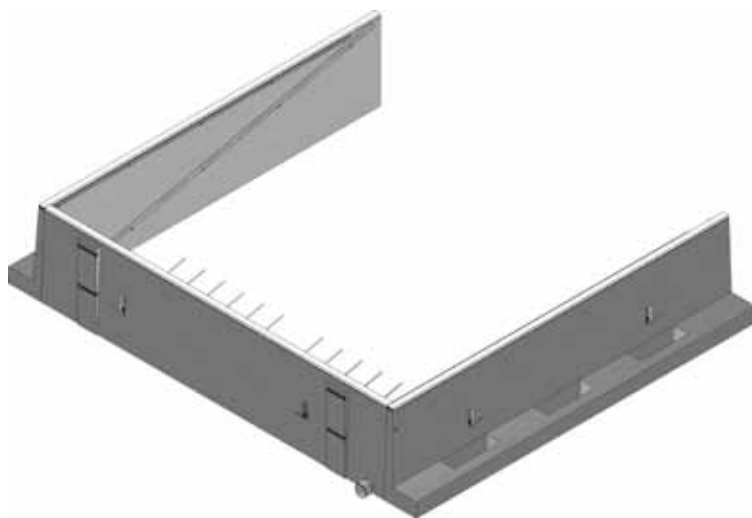
SPORTFIX Water jump assembly kit

The SPORTFIX Water jump kit consists of three prefabricated sections of reinforced concrete. This enables a water jump kit to be created in accordance with international requirements rapidly, easily and cost-effectively. Its dimensions comply with DIN 18035, Part 8 and IAAF competition rules.

The upper edges of the elements are bordered with white soft profiles. The DN 70 outlet enables the water jump kit to be emptied. The base of the water jump kit is concreted by the customer. The concrete tamper edge, on the other hand, can be adjusted accordingly.



Water jump kit



| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|---|--------------|-------------|--------------|--------------|-----------------|
| Water jump kit, 3-piece, with white soft profiles, DN 70 plastic outlet, steel connecting piece and galvanised steel pull-off rails | 3592 | 3660 | 851 | 2200,0 | 7262 |



SPORTFIX® Distribution shafts

Distribution pits for electrical cables (type E) or water conduits (type W)

For big sports events or concerts with a lot of communication cables or for watering the lawn.





At a glance

- ✓ Type E - for electrical and communication cables
- ✓ Type W - for fittings, measuring instruments and water conduits
- ✓ cover consists of galvanised steel plate which can be filled up with plastic layers



SPORTFIX® Distribution shafts, Type E

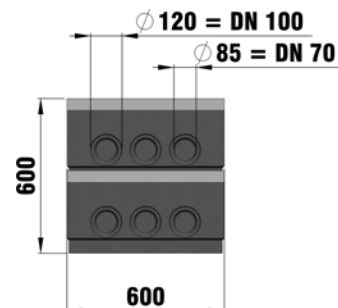
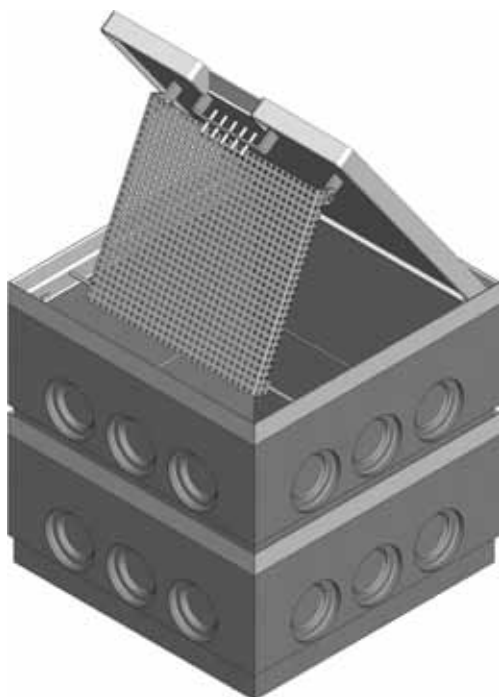
SPORTFIX Distribution shafts

SPORTFIX Type E distribution shafts accommodate electrical and communications cables, while SPORTFIX Type W distribution shafts are designed for fittings, measuring instruments and water pipes on sports grounds. SPORTFIX distribution shafts are made from fibre-reinforced concrete. Their upper edges are protected by a continuous steel frame.

SPORTFIX Type E distribution shaft

The SPORTFIX Type E distribution shaft consists of two sections and offers the opportunity to connect DN 70 or DN 100 conduits to any side. Its grating is made from galvanised tread plate and can support the weight of a vehicle. It is provided by the customer with a suitable finish surface. This grating is equipped with a carrying handle, bracket for fixtures and cable strain relief system. The base of the pit is created by the customer. The stacking elements can be placed on top of one another until the required height is reached.

Two piece, grating can support the weight of a vehicle and features a carrying handle, bracket for fixtures and cable strain relief system.



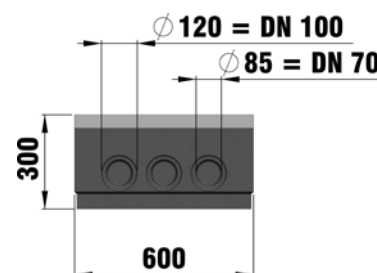
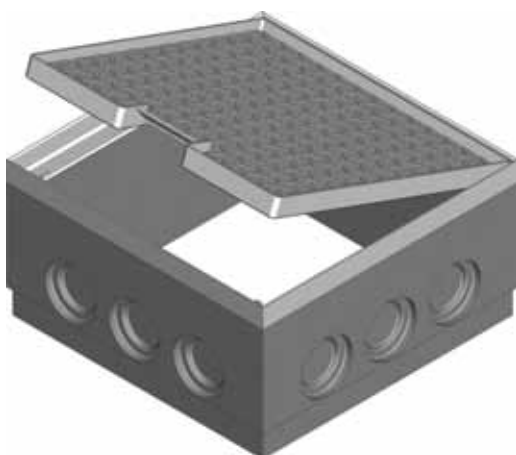
| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------------------|--------------|-------------|--------------|--------------|-----------------|
| E | 600 | 600 | 600 | 192,0 | 7450 |
| Stacking element | 600 | 600 | 300 | 58,1 | 7400 |

SPORTFIX® Distribution shafts, Type W

SPORTFIX Type W distribution shafts

The SPORTFIX Type W distribution shaft comes as one single piece. It likewise allows DN 70 or DN 100 conduits to be connected to any side. The galvanised tread plate grating can be walked on and also features a carrying handle. The base of the pit is created by the customer. The stacking elements can be placed on top of one another until the required height is reached.

One-piece; grating has a carrying handle and can support the weight of a vehicle.



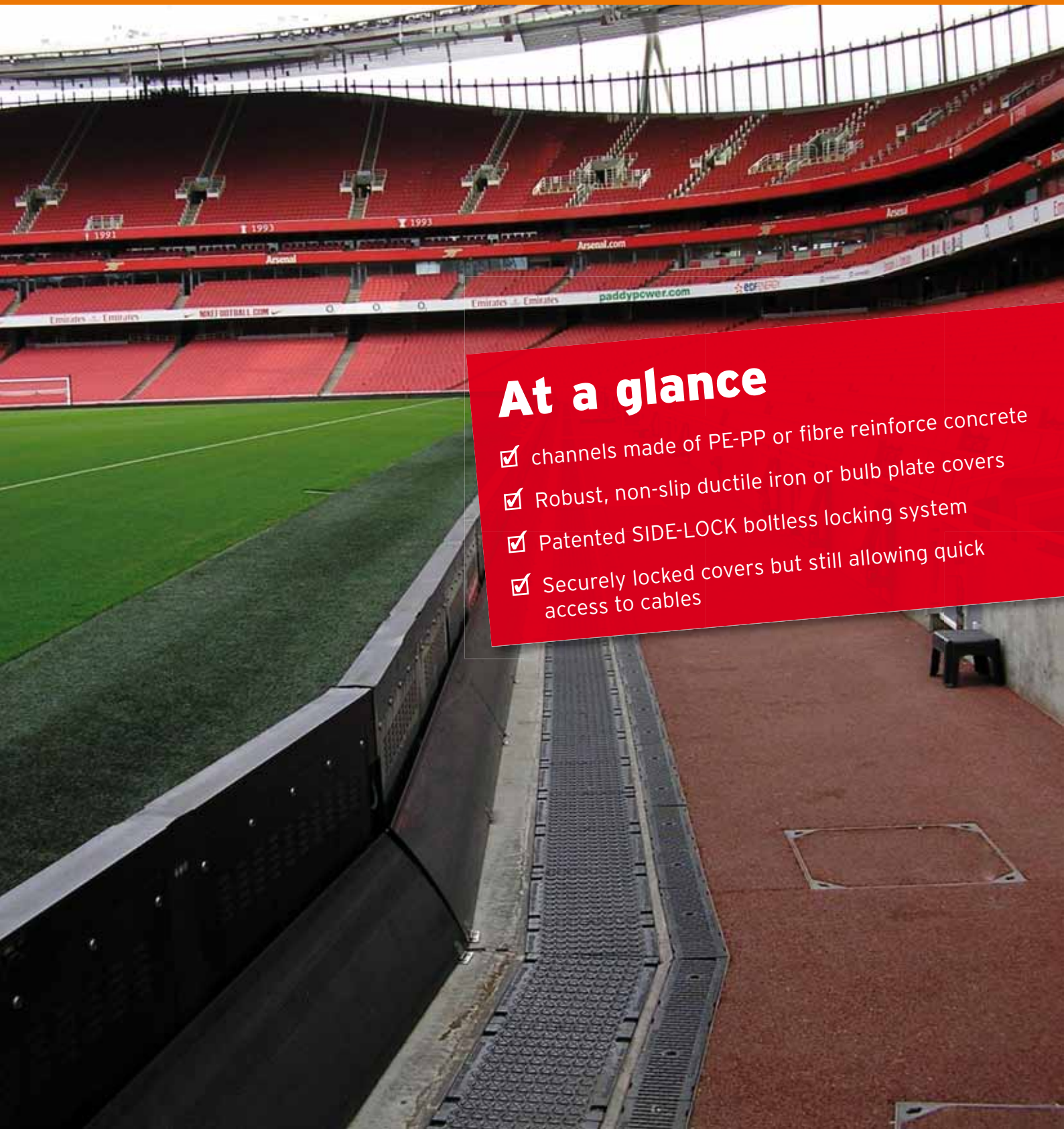
| Type | Length mm | Width mm | Height mm | Weight kg | Product code |
|------------------|--------------|-------------|--------------|--------------|-----------------|
| W | 600 | 600 | 300 | 98,0 | 7460 |
| Stacking element | 600 | 600 | 300 | 58,1 | 7400 |

SERVICE Channels

Cable management system

For the safe management of cables at stadiums, race tracks, industrial applications and telecommunication





At a glance

- ✓ channels made of PE-PP or fibre reinforce concrete
- ✓ Robust, non-slip ductile iron or bulb plate covers
- ✓ Patented SIDE-LOCK boltless locking system
- ✓ Securely locked covers but still allowing quick access to cables

SERVICE Channels

HAURATON SERVICE Channels for sports venues and industrial applications

Nowadays, an essential requirement for any venue hosting national or international events is the safe management of cables needed to facilitate multi-media communication and TV broadcasts from the world's television companies. HAURATON have gained invaluable expertise supplying their systems in to prestigious stadiums in many parts of the world.

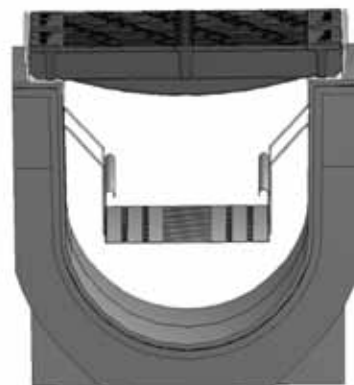
The RECYFIX SERVICE CHANNELS are available in five different channel sizes ranging from 100mm to 300mm.



HAURATON SERVICE CHANNELS at Wembley Stadium in the UK



At Yas Marina Circuit in Abu Dhabi the HAURATON SERVICE CHANNELS are used in the pit lane

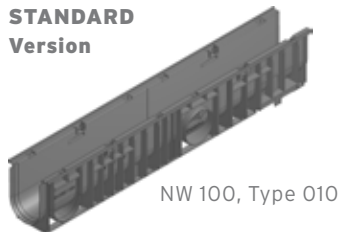


As a cable duct a steel construction which fits in the channel is available

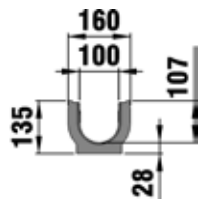
RECYFIX®SERVICE Channels

RECYFIX®SERVICE Channels - Cable ducts

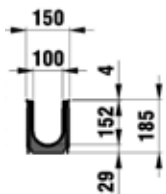
**STANDARD
Version**



NW 100, Type 010



NW 100 Type 01

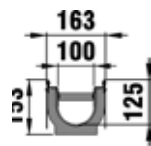


NW 100 Type 010

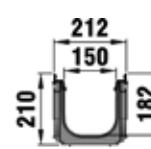
**SUPER KS
Version**



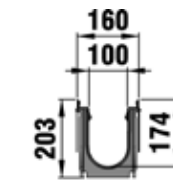
NW 200, Type 010



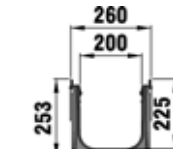
NW 100 Type 01



NW 150 Type 01



NW 100 Type 010

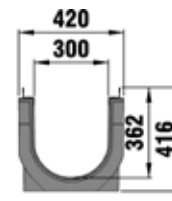


NW 200 Type 020

**SUPER
Version**



NW 300, Type 01



NW 300 Type 01

| | Length mm | Width mm | Height mm | Weight mm | Product code |
|---|--------------|-------------|--------------|--------------|-----------------|
| RECYFIX SERVICE CHANNEL STANDARD 100 Type 01 | 1000 | 160 | 135 | 2.5 | 40200 |
| RECYFIX SERVICE CHANNEL STANDARD 100 Type 010 | 1000 | 160 | 185 | 3.0 | 40242 |
| RECYFIX SERVICE CHANNEL SUPER KS 100 Type 01 | 1000 | 160 | 153 | 5.3 | 41100 |
| RECYFIX SERVICE CHANNEL SUPER KS 100 Type 010 | 1000 | 160 | 203 | 5.4 | 41142 |
| RECYFIX SERVICE CHANNEL SUPER KS 150 Type 01 | 1000 | 210 | 210 | 5.3 | 40500 |
| RECYFIX SERVICE CHANNEL SUPER KS 200 Type 020 | 1000 | 256 | 253 | 4.9 | 41344 |
| RECYFIX SERVICE CHANNEL SUPER 300 Type 01 | 1000 | 420 | 416 | 14.8 | 40900 |

RECYFIX®SERVICE Channels - Covers



Solid cover
galvanised



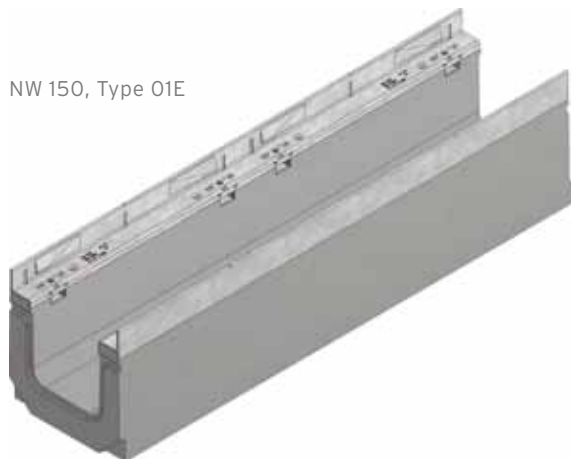
NW 100, Type 010

| | Length mm | Width mm | Height mm | Weight mm | Product code |
|--|--------------|-------------|--------------|--------------|-----------------|
| STANDARD 100 Solid cover, galvanised, cl. A 15 | 1000 | 136 | 22 | 3.1 | 40271 |
| SUPER KS 100 Solid cover, galvanised, cl. C 250 | 1000 | 149 | 20 | 5.5 | 8191 |
| SUPER KS 100 Solid ductile iron cover, cl. E 600 | 500 | 149 | 20 | 4.7 | 8962 |
| SUPER KS 150 Solid ductile iron cover, cl. E 600 | 500 | 199 | 20 | 7.0 | 11270 |
| SUPER KS 200 Solid ductile iron cover, cl. E 600 | 500 | 249 | 20 | 8.7 | 12270 |
| SUPER 300 Solid ductile iron cover, cl. E 600 | 500 | 377 | 40 | 21.5 | 4262 |

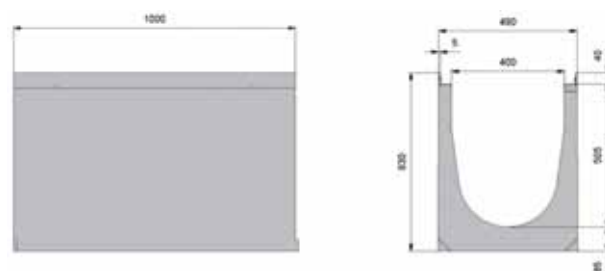
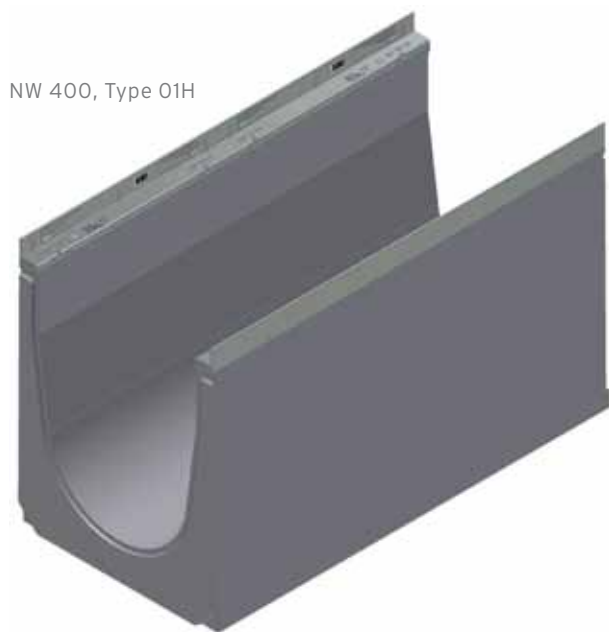
FASERFIX®SERVICE Channels

FASERFIX®SERVICE Channels - Cable ducts

NW 150, Type 01E



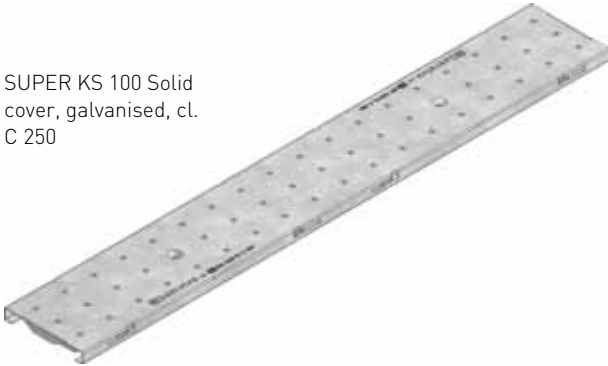
NW 400, Type 01H



| | Length mm | Width mm | Height mm | Weight mm | Product code |
|--|--------------|-------------|--------------|--------------|-----------------|
| FASERFIX SERVICE CHANNEL SUPER KS 100 Type 05 | 1000 | 160 | 184 | 37,0 | 8041 |
| FASERFIX SERVICE CHANNEL SUPER KS 100 Type 010 | 1000 | 160 | 214 | 40,0 | 8042 |
| FASERFIX SERVICE CHANNEL SUPER KS 100 Type 020 | 1000 | 160 | 274 | 48,0 | 8044 |
| FASERFIX SERVICE CHANNEL SUPER 150 Type 01E | 1000 | 240 | 255 | 80,0 | 2105 |
| FASERFIX SERVICE CHANNEL SUPER 150 Type 010E | 1000 | 240 | 309 | 93,5 | 2106 |
| FASERFIX SERVICE CHANNEL SUPER 150 Type 020E | 1000 | 240 | 369 | 105,0 | 2107 |
| FASERFIX SERVICE CHANNEL SUPER 200 Type 01E | 1000 | 290 | 305 | 104,5 | 3105 |
| FASERFIX SERVICE CHANNEL SUPER 200 Type 010E | 1000 | 290 | 350 | 113,5 | 3106 |
| FASERFIX SERVICE CHANNEL SUPER 200 Type 020E | 1000 | 290 | 400 | 124,5 | 3107 |
| FASERFIX SERVICE CHANNEL SUPER 300 Type 01E | 1000 | 390 | 415 | 150,0 | 4105 |
| FASERFIX SERVICE CHANNEL SUPER 400 Type 01 | 1000 | 490 | 540 | 246,0 | 4111 |
| FASERFIX SERVICE CHANNEL SUPER 400 Type 01H | 1000 | 490 | 630 | 265,0 | 4116 |

RECYFIX®SERVICE Channels - Covers

SUPER KS 100 Solid
cover, galvanised, cl.
C 250



SUPER 400 Solid
ductile iron cover,
cl. E 600



| | Length mm | Width mm | Height mm | Weight mm | Product code |
|---|--------------|-------------|--------------|--------------|-----------------|
| SUPER KS 100 Solid cover, galvanised, cl. C 250 | 1000 | 149 | 20 | 5,5 | 8191 |
| SUPER KS 100 Solid ductile iron cover, cl. E 600 | 500 | 149 | 20 | 4,7 | 8262 |
| SUPER KS 100 Solid ductile iron cover, cl. E 600, KTL | 500 | 149 | 20 | 4,7 | 8962 |
| SUPER 150 Solid ductile iron cover, cl. E 600 | 500 | 227 | 40 | 10,7 | 2262 |
| SUPER 200 Solid ductile iron cover, cl. E 600 | 500 | 279 | 40 | 13,4 | 3262 |
| SUPER 200 Solid ductile iron cover, cl. E 600, KTL | 500 | 279 | 40 | 13,6 | 3962 |
| SUPER 300 Solid ductile iron cover, cl. E 600 | 500 | 377 | 40 | 21,5 | 4262 |
| SUPER 400 Solid ductile iron cover, cl. E 600 | 500 | 477 | 440 | 32,0 | 4362 |

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