



# PRE-CASTED DRAINAGE SYSTEMS

# Rainwater management

Comprehensive rainwater management is more important now than ever before. There is a growing awareness of treating rainwater as a resource, so it is important that this valuable resource is returned to the natural circulation as often as possible. Where this is not possible, HAURATON offer suitable solutions for the efficient collection and drainage of rainwater so as to prevent flooding and overloading of sewer networks.

Intense rainfall, heavy traffic, water pollution harmful to the environment and humans are among the rainwater management challenges.

The choice of HAURATON products is broad and cor-

responds to the need for effective and safe rainwater management at every stage - from collection to treatment and infiltration of water into the ground or discharge into the sewerage system. To make it easier to select the right system for a given project, we have divided our systems into four core competencies.



## **DRAIN**

Directed drainage of rainwater through drainage systems.



## **TREAT**

Filtration of polluted surface water run-off.



## **INFILTRATE**

Controlled infiltration of rainwater into the ground.



## **RETAIN**

Safe retention and temporary retention of large quantities of rainwater.



For more information, please visit our website:

[www.hauraton.com](http://www.hauraton.com)





## DRAIN

Surface drainage is the intentional discharge of rainwater and snowmelt naturally or by using of drainage systems such as linear drains or point drains. The function of a drainage system is to collect, transport and discharge of rainwater from the paved surface. Drainage channels are used in areas with different traffic volumes, from heavy traffic zones such as airports or industrial plants to light traffic in pedestrian zones, such as markets and pedestrian areas. Depending on the area of application, there are different requirements for the drainage system that must be taken into account. In areas such as airport zones, seaports and container ports, linear drainage

systems are subjected to extremely heavy traffic loads and high traffic volume. The enormous pressure and dynamic forces demand maximum stability from the drainage systems. The use of HAURATON drainage channels in areas subject to extreme loads ensure absolute safety of use and a long service life.

# More than 25 years of experience in the selection and supply of rainwater management systems.

## The HAURATON brand has been present in Poland since 1994.

We specialise in linear drainage systems. We take an individual approach to every order, which enables us to effectively identify the needs and expectations of our customers. We carry out our work quickly, efficiently and, above all, professionally. Our offer includes a wide range of solutions for rainwater management. We guarantee safety and satisfaction with the results of our work. In addition, we provide technical and commercial consultancy services in Poland. If you have any questions or concerns about the products we offer, please do not hesitate to contact our company. We will be happy to assist you in selecting effective linear drainage systems.

### In addition to linear drainage, we also sell:

- separators,
- infiltration systems,
- retention systems.

The long period of operation on the market has meant that we have gained a great deal of experience as well as knowledge. As a result, we have managed to acquire a large number of satisfied customers. We are constantly striving to expand our range of services to meet the expectations and needs of our customers. To date, we have completed many facilities across the country. We can pride ourselves on the trust of our customers, who have managed to convince themselves of the high quality of our services. We are flexible when carrying out orders, and our actions are distinguished by their effectiveness.

### Our systems have been installed at the largest and most demanding investments, such as:

- sports facilities ("Narodowy" Stadium in Warsaw, PGE Arena Stadium)
- office buildings (in Warsaw: Varso Tower, Warsaw Spire, Złota 44, Q22)
- airports (Warsaw Chopin Airport, Krakow Balice Airport)
- ports and containers terminals (seaport and container terminal BTC Gdynia, Old Town in Szczecin)



### Global experience

## 40 000 km+

around the world we have already installed so many kilometres of drainage that you could encircle the globe with it.

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# Concrete channel body

Modern prefabrication allows efficient production of drainage systems with high repeatable quality.



Based on our experience in the production of prefabricated drainage systems to date, we have developed four different drainage channels in a prefabricated channel body.

By choosing one of the four options, the system can be adapted to the individual requirements of the project. The current trend in the production of prefabricated solutions makes it possible to reduce the installation time of the system and the number of workers required on site. The concrete's resistance to weather conditions and de-icing agents ensures that the product will last for many years. Prefabricated linear draining units are prepared under controlled conditions, so during installation you can be sure that the encasement will be

durable, made in accordance with the technical requirements of the project and will provide protection to the building for many years. A major advantage of prefabricated linear drains is the ability to quickly replace damaged sections of existing installations without the need for on-site casing and taking the facility out of service. Installation work can be carried out without hindrance even in winter conditions.

**Advantages of pre-casted linear systems:**



- ✔ Repeatable high quality
- ✔ Quick installation of the drainage
- ✔ Durable and robust channel body
- ✔ Existing line elements can be replaced
- ✔ Efficient planning of construction work



Mould for the production of a 4-metre TRAFFIC GUGI®BLOC+ section

# Prefabricated drain channels HAURATON offer

## Tailor the drainage to the needs of your investment.

The HAURATON range includes 4 types of linear draining units with prefabricated encasement. Depending on the needs of your investment, you can choose the right nominal width, height, length of sections, a choice between monolithic draining channels and draining with possibility of a matching gratings. Please refer to the table parameters of the presented drainage types and select the one that meets the needs of your investment in the best way.

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Load class in accordance with EN 1433

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Traffic load

---

Dynamic load

---

Nominal width I Type

---

Material - body channel

---

Angle housing

---

Type of grating

---

Additional information

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**TRAFFIC GUGIBLOC+**



Monolithic pre-cast drainage system to withstand extreme static and dynamic loads.

**FASERFIX BIG BL**



Robust prefabricated drainage system for areas exposed to extreme traffic loads and heavy traffic.

**FASERFIX KS+**



Drainage for areas where rapid build-up is required, particularly at site entrances and high traffic areas.

**MONOTEC+**



Monolithic slotted linear drainage for areas with heavy traffic and large run-off area.

up to F900



up to F900



up to F900



up to D400



NW 300

concrete class C50/60 (exposure class XF4, XA3) with basalt aggregate, reinforced with steel + plastic insert

NW 100-300

concrete class C50/60 (exposure class exposure class XF4, XA3) with added basalt aggregate, reinforced with steel

NW 100-200

concrete class C50/60 (exposure class exposure class XF4, XA3) with added basalt aggregate, reinforced with steel

NW 100

C50/60 grade HSR cement concrete XF4, XA3 reinforced with steel

■ of galvanised steel, 40 mm high and 45 mm wide at the widest point

■ galvanised steel, height 20 mm and width 25 mm at the widest point

■ ductile iron grate integrated in body

■ slotted ductile iron grate, ■ GUGI ductile iron grate, ■ fixing of grating: SIDE-LOCK latching system and screw system, fixing in a total of 16 points per metre

■ grates made of ductile iron, galvanised steel, stainless steel and polyamide  
 ■ GUGI grate,  
 ■ FIBRETEC slotted gratings made in various colors,  
 ■ award-winning design METROPOLIS grates,  
 ■ grates with longitudinal bars,  
 ■ perforated covers

■ upper surface of monolithic drainage made of materials ensuring high strength and high abrasion resistance

■ integrated reinforced concrete encasement,  
 ■ sections in two lengths: 4m and 1m,  
 ■ overlapping connection,  
 ■ supplementary elements with end caps available,  
 ■ 100% watertightness immediately after installation of the draining unit,  
 ■ ITWL (Air Force Institute of Technology) certificate of suitability for airport facilities

■ integrated reinforced concrete encasement,  
 ■ sections in two lengths: 4m and 1m,  
 ■ factory-fitted joint moulding profile,  
 ■ possibility to color the body and give it a textured surface

■ channel with prefabricated body,  
 ■ 1m and 4m sections,  
 ■ wide range of patterns grates,  
 ■ color options concrete body and texture of its surface

■ monolithic channels,  
 ■ 1m and 4m sections,  
 ■ high hydraulic capacity,  
 ■ resistance of the wetted perimeter to chemicals,  
 ■ ITWL declaration of suitability of drains for use on airport facilities,  
 ■ possibility to color the channel body and give it a surface structure

# Quick lines installation

4 metre long prefabricated drainage channels.

1

## TRAFFIC GUGIBLOC+

### Type 010

- Length: 4000 mm
- Width: 700 mm
- Height: 575 mm

### Nominal widths available:

- NW 300

2

## FASERFIX BIG BL 300

### Type 020

- Length: 4000 mm
- Width: 700 mm
- Height: 575 mm

### Nominal widths available:

- NW 100, NW 150, NW 200, NW 300

3

## FASERFIX KS+ 200

### Type 010

- Length: 4000 mm
- Width: 510 mm
- Height: 465 mm

### Nominal widths available:

- NW 100, NW 150, NW 200

4

## MONOTEC+ 230

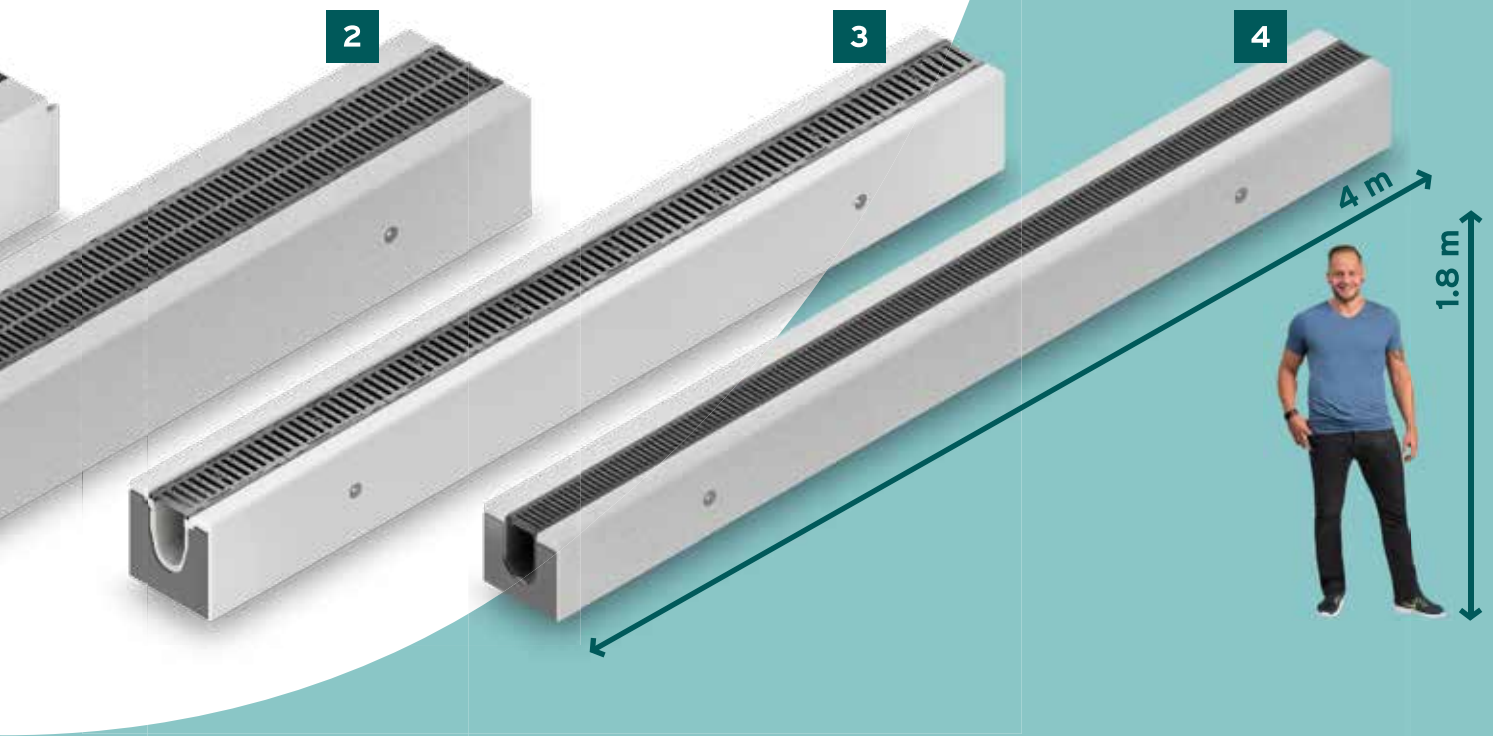
### Type 230

- Length: 4000 mm
- Width: 360 mm
- Height: 328 mm

### Nominal widths available:

- NW 100





# Free expert assistance from the Technical Department

## Not sure where to start with your project? Where to find technical information and how to choose the right solution for your project?

Give our Technical Department a call for support.

Our experts are engineers who specialise in the design of complex rainwater management systems.

With their help, you will be able to reduce design time to a minimum.

## Our services:



- ✓ Hydraulic calculations for drainage systems, for rainwater treatment, retention and infiltration systems
- ✓ Additional selection tools, e.g. „WaterFolder”
- ✓ Full documentation needed for the project: BIM files, technical drawings, approval documents, development guidelines, etc.
- ✓ Support in planning the layout of the system in the project
- ✓ Support with project documentation
- ✓ Preparation of a quotation; estimation of the quantity of materials needed and their cost.



For more information, please visit our website:

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# FASERFIX®BIG BL

**1** Ductile iron slotted grate

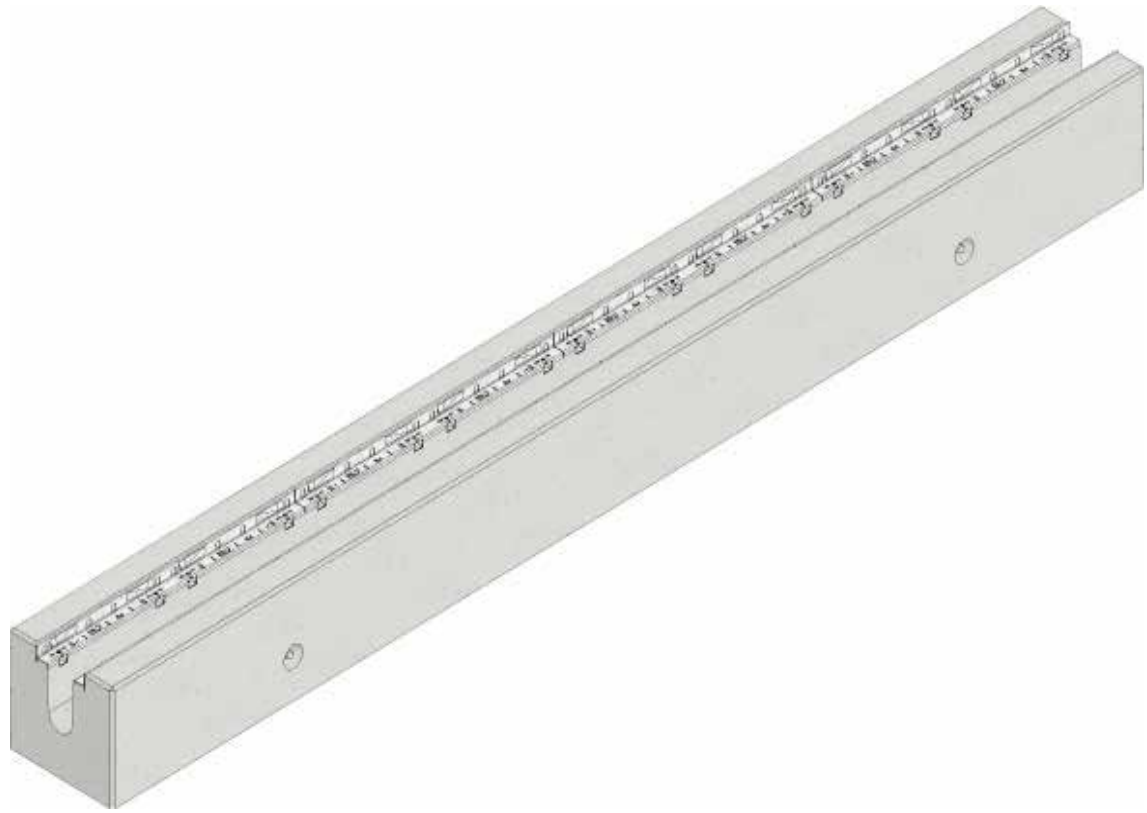


**2** Precasted concrete channel with steel reinforcement and galvanised, ductile iron or stainless steel frames

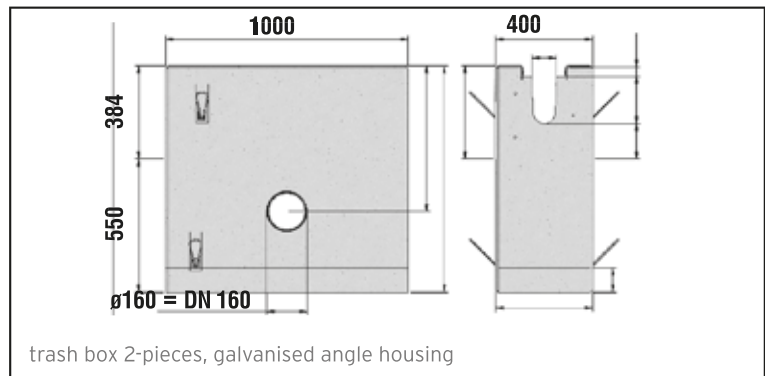
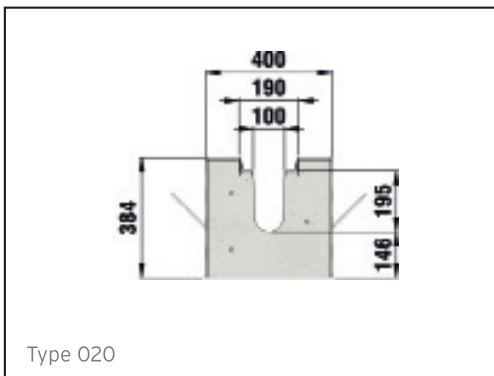
## IDEAL FOR ...

the drainage of all concrete pavements exposed to extreme loads of heavy traffic, such as roads, airport operations areas, port facilities, container terminals, industrial and logistics areas.

# FASERFIX® BIG BL 100



Type 020, 4 m,



# FASERFIX®BIG BL 100

## Channels

### FASERFIX®BIG BL 100 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross- sect. cm <sup>2</sup>	Weight kg	Item No
type 020, galvanised angle housing, 4 m*	4000	400	384	175	1200,00	81744
type 020, galvanised angle housing, 1 m*	1000	400	384	175	400,00	81799

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

### FASERFIX®BIG BL 100 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross- sect. cm <sup>2</sup>	Weight kg	Item No
type 020, ductile iron angle housing, 4 m*	4000	400	384	175	1200,00	21744
type 020, ductile iron angle housing, 1 m*	1000	400	384	175	400,00	21799

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

Type 020,  
galvanised angle  
housing  
4,0 m



Type 020,  
galvanised angle  
housing  
1,0 m



Type 020,  
ductile iron angle  
housing,  
4,0 m



Type 020,  
ductile iron angle  
housing,  
1,0 m



# FASERFIX®BIG BL 100

ductile iron grating,  
SW 94/16 mm, black  
0,5 m



ductile iron grating,  
SW 94/16 mm,  
KTL-coated  
0,5 m



GUGI-Ductile iron mesh  
grating  
0,5 m



GUGI-ductile iron mesh  
grating MW 15/25,  
KTL coated  
0,5 m



## Gratings / covers

### FASERFIX®BIG BL 100, class D 400\*

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 94/16 mm, black	500	179	40	360	5,90	26063
ductile iron grating, SW 94/16 mm, KTL-coated	500	179	40	360	6,10	26663
ductile iron grating SW 94/16, galvanised	500	179	40	360	5,97	26863

\* Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

### FASERFIX®BIG BL, class F 900

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI-Ductile iron mesh grating	500	179	40	494	7,60	26060
GUGI-ductile iron mesh grating MW 15/25, KTL coated	500	179	40	494	7,60	26660



# FASERFIX® BIG BL 100

## Accessories

### Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box 2-pieces, galvanised angle housing	1000	400	934	605,00	81860
trash box, 2-pieces, ductile iron angle housing	1000	400	934	605,00	21860
trash box, upper part, galvanised angle housing	1000	400	384	275,00	81895
trash box, upper part, ductile iron angle housing	1000	400	384	275,00	21895
trash box, middle part	1000	400	550	310,00	81896
trash box, lower part	1000	400	550	330,00	81897
galvanised bucket for trash box	418	68	150	1,20	720

trash box 2-pieces, galvanised angle housing



trash box, 2-pieces, ductile iron angle housing



### End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 020	-	190	260	0,80	6083
end cap with PVC-U pipe outlet DN/OD 110, galvanised	-	190	260	0,80	6093

end cap closed, galvanised, type 020



end cap with PVC-U pipe outlet DN/OD 110, galvanised



### Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black	-	-	-	-	33100
UPVC-caps for SIDE-LOCK Ductile iron gratings	-	-	-	-	91105
Transportation hook for anchors with ball head 2,5T (for FASERFIX BIG).	-	-	-	-	RD01
connection plate for type 020, 8 mm*	8	375	345	0,05	33158
foul air trap DN/OD 160, external	584	160	439	2,00	960
sealing material Sikaflex Tank N, poly-tube bag 600 m**†	-	-	-	1,00	19050
epoxy protective coating for concrete channels, 35 kg package, black	-	-	-	-	19004
epoxy protective coating for concrete channels, 1 kg package, black	-	-	-	-	19005
primer Sikaflex 215, 1000 ml	-	-	-	1,00	19055

hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black



\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

\*\* Usage: approximately 100 ml per connection.

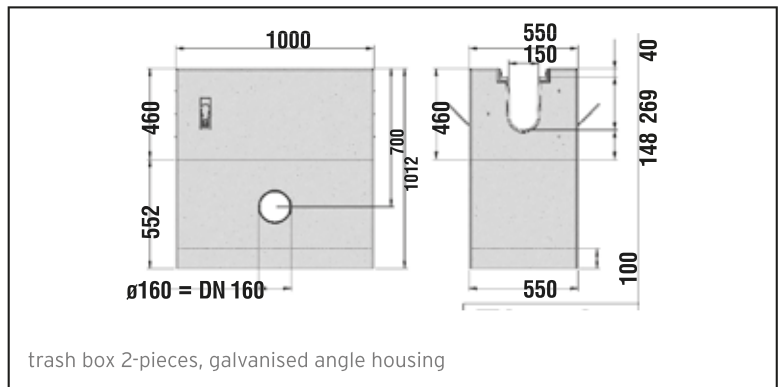
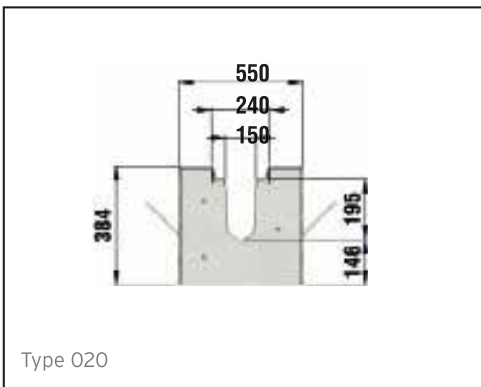
### Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
cutting to length	-	-	-	-	33895
mitre cuts	-	-	-	-	33896
drilling of connection holes	-	-	-	-	33897
inserting of PVC union connectors	-	-	-	-	33898

# FASERFIX® BIG BL 150



Type 020, 4 m



# FASERFIX®BIG BL 150

## Channels

### FASERFIX®BIG BL 150 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross- sect. cm <sup>2</sup>	Weight kg	Item No
type 020, galvanised angle housing , 4 m*	4000	550	460	368	2010,00	82744
type 020, galvanised angle housing , 1 m*	1000	550	460	368	500,00	82749

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

### FASERFIX®BIG BL 150 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross- sect. cm <sup>2</sup>	Weight kg	Item No
type 020, ductile iron angle housing, 4 m*	4000	550	460	368	2010,00	22744
type 020, ductile iron angle housing, 1 m*	1000	550	460	368	500,00	22749

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

Type 020, galvanised angle housing 4,0 m

Type 020, galvanised angle housing 1,0 m

Type 020, ductile iron angle housing, 4,0 m

Type 020, ductile iron angle housing, 1,0 m

# FASERFIX®BIG BL 150

## Gratings / covers

### FASERFIX®BIG BL 150, class D 400\*

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 18 mm, black	500	229	40	624	7,45	22463
ductile iron grating, SW 18 mm, KTL-coated	500	229	40	624	7,45	22483
ductile iron grating, SW 18 mm	500	229	40	624	7,44	22493

Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

### FASERFIX®BIG BL 150, class E 600

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI-Ductile iron mesh grating, MW 15/25 mm, black	500	229	40	628	11,50	22068

### FASERFIX®BIG BL 150, class F 900

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 20 mm, black	500	229	40	710	9,90	22061
ductile iron grating, SW 150/20 mm, KTL-coated	500	229	40	710	9,90	22761

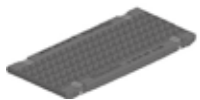
ductile iron grating,  
SW 18 mm, black  
0,5 m



GUGI-Ductile iron  
mesh grating,  
MW 15/25 mm, black  
0,5 m



ductile iron grating,  
SW 150/20 mm,  
KTL-coated  
0,5 m



# FASERFIX® BIG BL 150

## Accessories Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box 2-pieces, galvanised angle housing	1000	550	1012	1035,00	82855
trash box, 2-pieces, ductile iron angle housing	1000	550	1012	1035,00	22855
trash box, upper part, galvanised angle housing	1000	550	460	475,00	82875
trash box, upper part, ductile iron angle housing	1000	550	460	475,00	22875
trash box, middle part	1000	550	552	540,00	82876
trash box, lower part	1000	550	552	560,00	82877
galvanised bucket for trash box	384	122	128	0,20	721

## End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 11-020	-	240	369	1,40	2083
end cap with horizontal PVC-U pipe outlet DN/OD 150, galvanised, type 11-020	-	240	369	1,70	2093

## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black	-	-	-	-	33100
UPVC-caps for SIDE-LOCK Ductile iron gratings	-	-	-	-	91105
Transportation hook for anchors with ball head 2,5T (for FASERFIX BIG).	-	-	-	-	RD01
connection plate for type 020, 8 mm*	8	550	420	0,05	33159
foul air trap DN/OD 160, external	584	160	439	2,00	960
sealing material, poly-tube bag 600 ml**	-	-	-	1,00	19050
epoxy protective coating for concrete channels, 35 kg package, black	-	-	-	-	19004
epoxy protective coating for concrete channels, 1 kg package, black	-	-	-	-	19005
primer Sikaflex,1000 ml	-	-	-	1,00	19055

\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

\*\* Usage: approximately 100 ml per connection.

## Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
cutting to length	-	-	-	-	33895
mitre cuts	-	-	-	-	33896
drilling of connection holes	-	-	-	-	33897
inserting of PVC union connectors	-	-	-	-	33898

trash box, lower part



trash box, 2-pieces, ductile iron angle housing



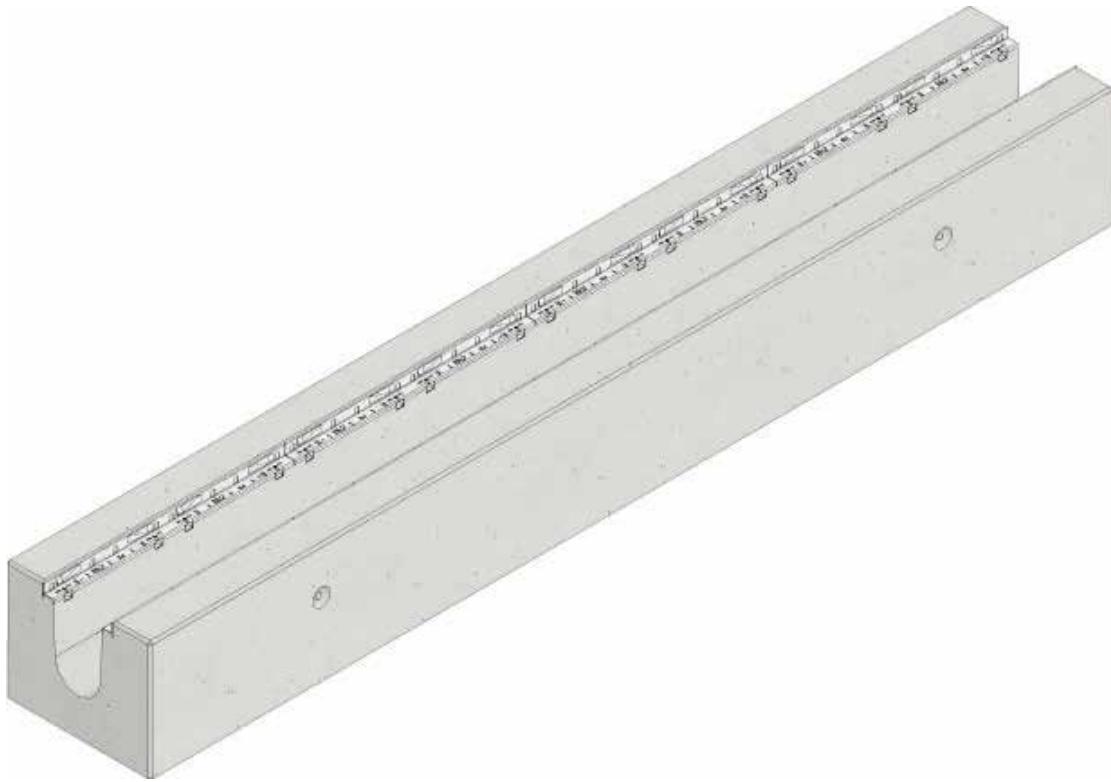
end cap closed, galvanised, type 11-020



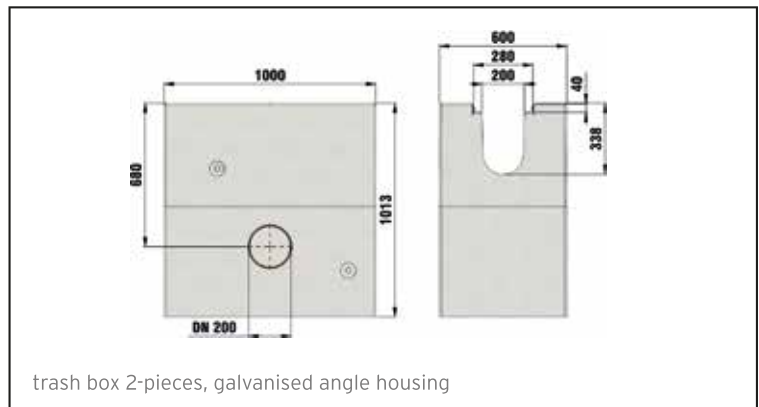
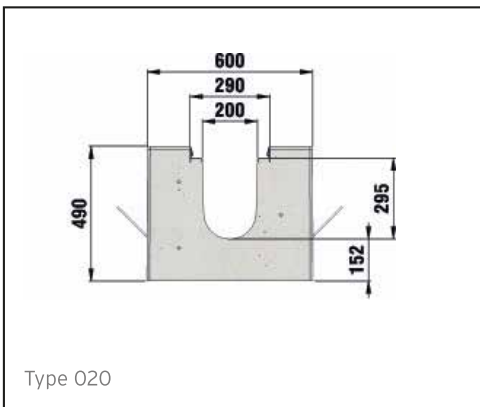
foul air trap DN/OD 160, external



# FASERFIX® BIG BL 200



Type 020, 4 m



# FASERFIX®BIG BL 200

## Channels

### FASERFIX®BIG BL 200 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 020, galvanised angle housing , 4 m*	4000	600	490	533	2148,00	83744
type 020, galvanised angle housing , 1 m*	1000	600	490	533	540,00	83799

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

### FASERFIX®BIG BL 200 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross- sect. cm <sup>2</sup>	Weight kg	Item No
type 020, ductile iron angle housing, 4 m*	4000	600	490	533	2148,00	23744
type 020, ductile iron angle housing, 1 m*	1000	600	490	533	540,00	23799

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

Type 020,  
galvanised angle  
housing  
4,0 m



Type 020,  
galvanised angle  
housing  
1,0 m



Type 020,  
ductile iron angle  
housing,  
4,0 m



Type 020,  
ductile iron angle  
housing,  
1,0 m



# FASERFIX®BIG BL 200

## Gratings / covers

### FASERFIX®BIG BL 200, class D 400\*

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 170/18 mm, black	500	279	40	732	9,26	23463
ductile iron grating, SW 170/18 mm, KTL coated	500	279	40	732	9,26	23483
ductile iron gratind, SW 170/18 mm	500	279	40	732	9,30	23493

Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

### FASERFIX®BIG BL 200, class E 600

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI-Ductile iron mesh grating, MW 15/25 mm, black	500	279	40	818	12,65	23068
GUGI-ductile iron mesh grating MW 15/25 mm, KTL coated	500	279	40	818	12,60	23768

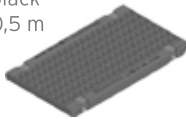
### FASERFIX®BIG BL 200, class F 900

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 20 mm, black	500	279	40	833	13,60	23061
ductile iron grating, SW 20 mm, KTL coated	500	279	40	833	13,70	23761

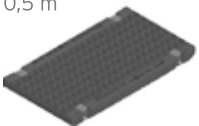
ductile iron grating,  
SW 170/18 mm, black  
0,5 m



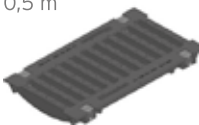
GUGI-Ductile iron mesh  
grating, MW 15/25 mm,  
black  
0,5 m



GUGI-ductile iron mesh  
grating MW 15/25 mm,  
KTL coated  
0,5 m



ductile iron grating,  
SW 20 mm,  
KTL coated  
0,5 m





# FASERFIX® BIG BL 200

## Accessories Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box 2-pieces, galvanised angle housing	1000	600	1013	1235,00	83855
trash box, 2-pieces, ductile iron angle housing	1000	600	1013	1235,00	23855
trash box, upper part, galvanised angle housing	1000	600	490	515,00	83895
trash box, upper part, ductile iron angle housing	1000	600	490	515,00	23895
trash box, middle part	1000	600	523	700,00	83896
trash box, lower part	1000	600	523	700,00	83897
galvanised bucket for trash box	384	122	128	1,50	721

trash box, upper part, galvanised angle housing



trash box, middle part



## End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 11-020	-	290	400	1,90	3083
end cap with horizontal PVC-U pipe outlet DN/OD 150, galvanised, type 01-020	-	290	400	1,80	3093

end cap with horizontal PVC-U pipe outlet DN/OD 150, galvanised, type 01-020



## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black	-	-	-	-	33100
UPVC-caps for SIDE-LOCK Ductile iron gratingsj	-	-	-	-	91105
Transportation hook for anchors with ball head 2,5T (for FASERFIX BIG).	-	-	-	-	RD01
connection plate for type 020, 8 mm	8	575	450	0,05	33160
PVC-connection DN/OD 200	-	-	-	2,00	907
sealing material, poly-tube bag 600 ml	-	-	-	1,00	19050
epoxy protective coating for concrete channels, 35 kg package, black	-	-	-	-	19004
epoxy protective coating for concrete channels, 1 kg package, black	-	-	-	-	19005
primer Sikaflex, 1000 ml	-	-	-	1,00	19055

hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black



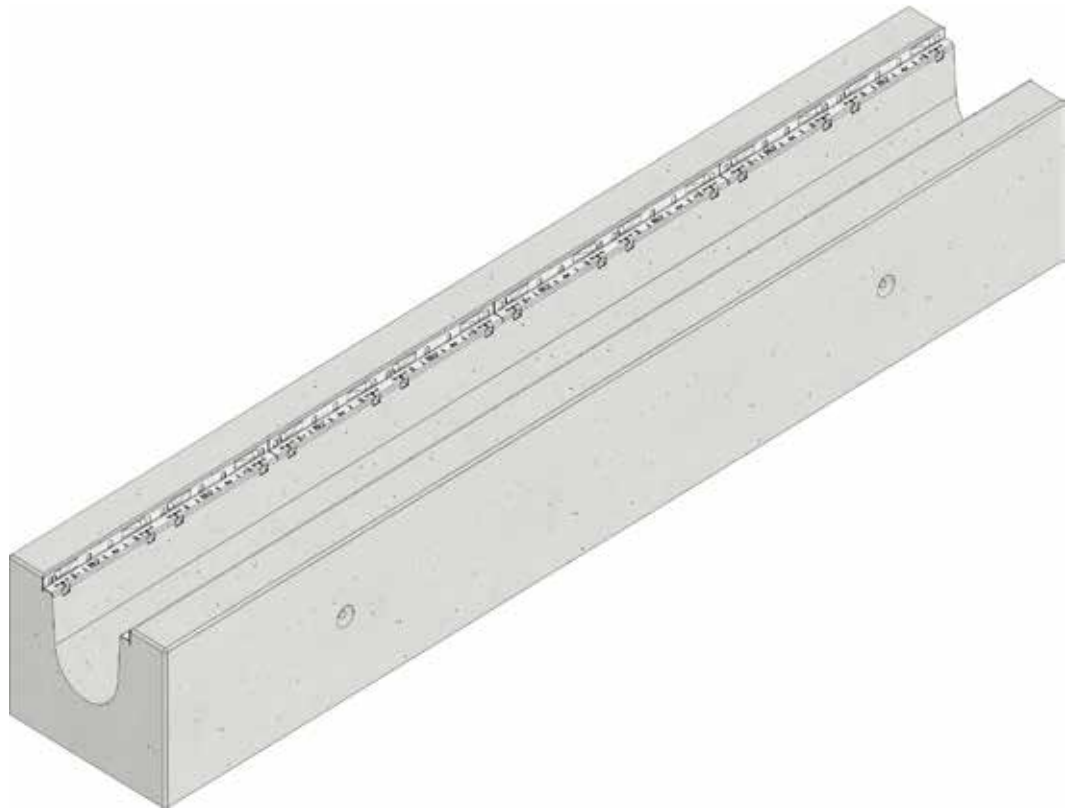
\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

\*\* Usage: approximately 100 ml per connection.

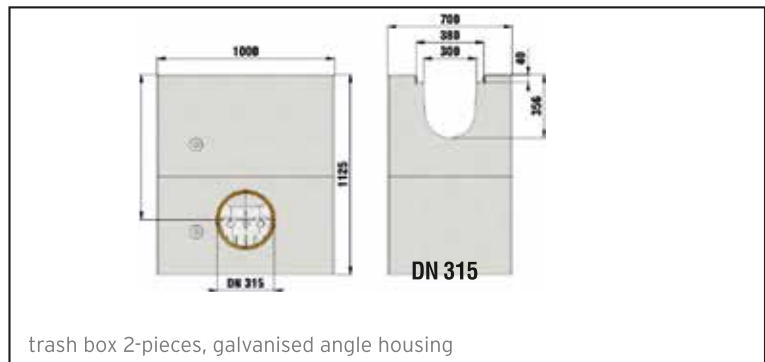
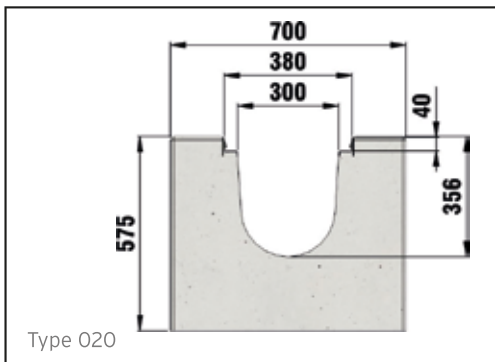
## Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
cutting to length	-	-	-	-	33895
mitre cuts	-	-	-	-	33896
drilling of connection holes	-	-	-	-	33897
inserting of PVC union connectors	-	-	-	-	33898

# FASERFIX®BIG BL 300



Type O20, 4 m



# FASERFIX®BIG BL 300

## Channels

### FASERFIX®BIG BL 300 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 020, galvanised angle housing , 4 m*	4000	700	575	812	3000,00	84733
type 020, galvanised angle housing , 1 m*	1000	700	575	812	750,00	24799

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

### FASERFIX®BIG BL 300 channels, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 020, ductile iron angle housing, 4 m*	4000	700	575	812	3000,00	84799
type 020, ductile iron angle housing, 1 m*	1000	700	575	812	750,00	64744

\* Channels with integrated concrete runners are equipped with spherical head anchor 2,5T (head's diameter - 26 mm, pivot's diameter 14 mm).  
The product does not include universal head-links.

Type 020, galvanised angle housing 4,0 m



Type 020, galvanised angle housing 1,0 m



Type 020, ductile iron angle housing, 4,0 m



Type 020, ductile iron angle housing, 1,0 m

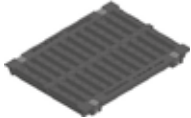


# FASERFIX®BIG BL 300

## Gratings / covers

### FASERFIX®BIG BL 300, class D 400\*

ductile iron grating,  
SW 2 x 136/18 mm,  
KTL coated  
0,5 m

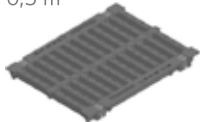


	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 2 x 136/18 mm, black	500	377	40	1150	16,90	24563
ductile iron grating, SW 2 x 136/18 mm, KTL coated	500	377	40	1150	16,90	24583

Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

### FASERFIX®BIG BL 300, class E 600

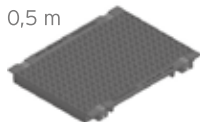
GUGI Ductile iron mesh  
grating, black  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI Ductile iron mesh grating, black	500	377	40	1172	21,80	4068
GUGI-Ductile iron mesh grating, MW 15/25, KTL-coated	500	377	40	1172	22,50	4868

### FASERFIX®BIG BL 300, class F 900

ductile iron grating,  
SW 2 x 136/20 mm,  
black  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 2 x 136/20 mm, black	500	377	40	1334	23,20	4061
ductile iron grating, SW 2 x 136/20 mm, KTL-coated	500	377	40	1334	23,20	4861

# FASERFIX® BIG BL 300

## Accessories

### Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box 2-pieces, galvanised angle housing	1000	700	1125	1460,00	84855
trash box, 2-pieces, ductile iron angle housing	1000	700	1125	1460,00	24855
trash box, upper part, galvanised angle housing	1000	700	575	680,00	84895
trash box, upper part, ductile iron angle housing	1000	700	575	680,00	24895
trash box, middle part	1000	700	550	750,00	84896
trash box, lower part	1000	700	550	780,00	84897
galvanised bucket	-	-	-	4,00	724

### End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 11-020	-	390	510	3,05	32974
end cap closed, stainless steel, type 11 - 020	-	390	510	3,57	32976

### Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
hexagon bolt with flange M10 x 50 8.8 part-thread with serration and search tip SW19 steel zinc flake black	-	-	-	-	33100
UPVC-caps for SIDE-LOCK Ductile iron gratings	-	-	-	-	91105
Transportation hook for anchors with ball head 2,5T (for FASERFIX BIG).	-	-	-	-	RD01
joints plate, 8 mm PE-foam anthracite	10	702	521	0,05	33161
PVC-connection DN/OD 200	-	-	-	2,00	907
sealing material, poly-tube bag 600 ml	-	-	-	1,00	19050
epoxy protective coating for concrete channels, 35 kg package, black	-	-	-	-	19004
epoxy protective coating for concrete channels, 1 kg package, black	-	-	-	-	19005
Primer Sikaflex, 1000 ml	-	-	-	1,00	19055

\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

\*\* Usage: approximately 100 ml per connection.

### Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
cutting to length	-	-	-	-	33895
mitre cuts	-	-	-	-	33896
drilling of connection holes	-	-	-	-	33897
inserting of PVC union connectors	-	-	-	-	33898

trash box, upper part, galvanised angle housing



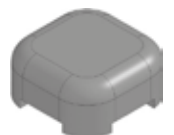
trash box, upper part, ductile iron angle housing



end cap closed, galvanised, type 11-020



UPVC-caps for SIDE-LOCK Ductile tile iron gratings



# FASERFIX®BIG BL

The sample installation instructions\*

More installation instructions can be found on our website [hauraton.com](http://hauraton.com)

## Asphalt, class F 900

**Installation Example in asphalted areas Class F 900**

\* y is Channel height - 26 cm

Category according to EN 1433 / DIN 1986	A 15	B 125	C 250	D 400**	E 600**	F 900**	Applying to following systems:
Foundation width x height y / thickness z (in cm)						20 / 11 / 20	FASERFIX BIG BL 100, 150, 200, 300
EN 12401							
EN 12402							
EN 12403							
EN 12404							
EN 12405							
EN 12406							
EN 12407							
EN 12408							
EN 12409							
EN 12410							
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EN 12498							
EN 12499							
EN 12500							

Our general installation instructions apply

Format DIN A4  
Scale 1:10  
E886

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Tel: +32 (0)2 511 001  
TS-UK@hauraton.com

Date: 22.04.2022  
00013089\_38RT15H.dwg  
FF-BIG-BL-8-300 Typ Q20 Reinforcement Erdbauhilfsartikel Klasse F 900 in Asphalt

## Concrete, class F 900

**Installation Example Concrete Class F 900**

\* y is Channel height - 24 cm

Category according to EN 1433 / DIN 1986	A 15	B 125	C 250	D 400**	E 600**	F 900**	Applying to following systems:
Foundation width x height y / thickness z (in cm)						20 / 11 / 20	FASERFIX BIG BL 100, 150, 200, 300
EN 12401							
EN 12402							
EN 12403							
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EN 12498							
EN 12499							
EN 12500							

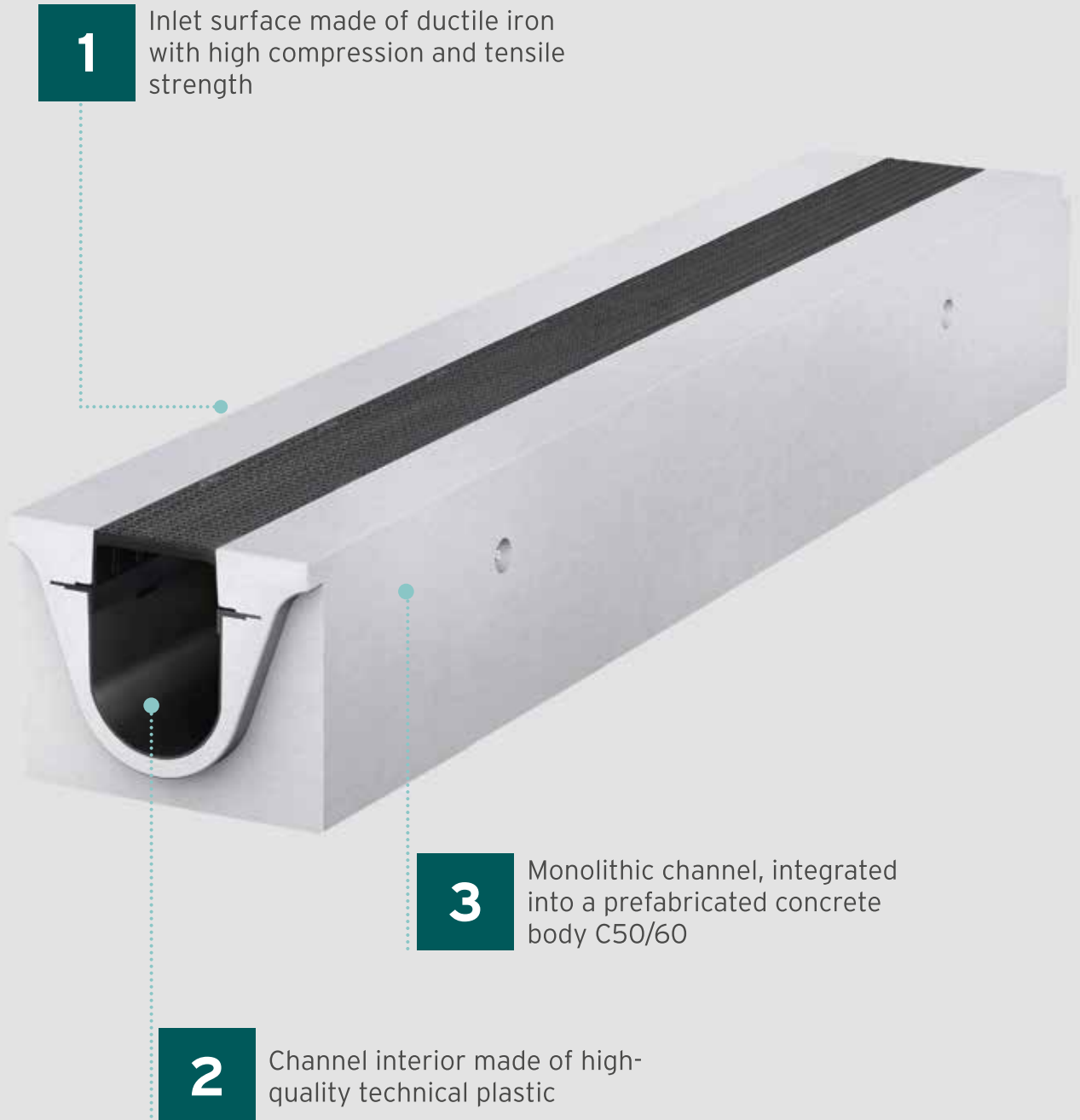
Our general installation instructions apply

Format DIN A4  
Scale 1:10  
E886

**hauraton**  
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Date: 22.04.2022  
00013435\_38RT15H.dwg  
FF-BIG

# TRAFFIC **GUGI**<sup>®</sup>BLOC+



**1** Inlet surface made of ductile iron with high compression and tensile strength

**2** Channel interior made of high-quality technical plastic

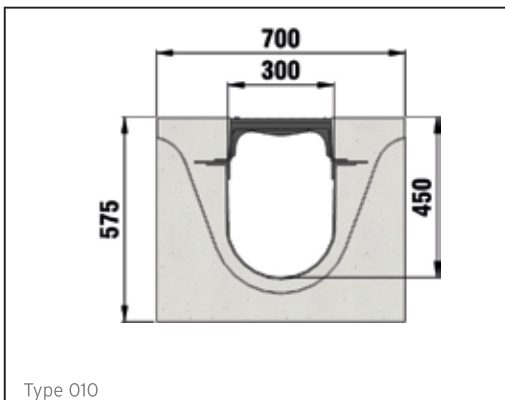
**3** Monolithic channel, integrated into a prefabricated concrete body C50/60

**IDEAL FOR ...**  
 for use on the most demanding sites, where highest static and dynamic loads, long-term exposure to the harshest conditions, and a large run-off area.

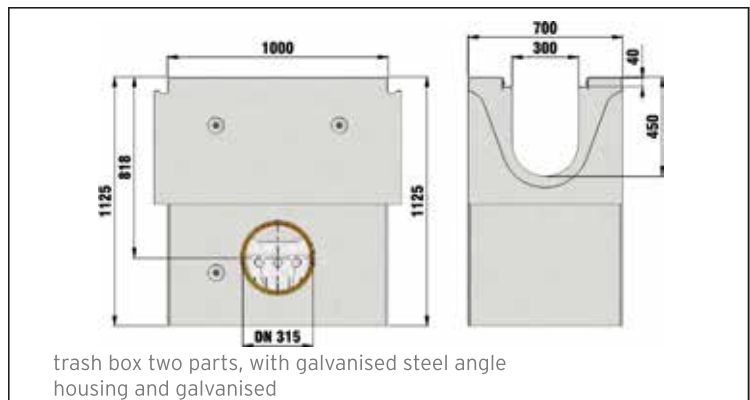
# TRAFFIC GUGI®BLOC+



Type 010, 4 m



Type 010



trash box two parts, with galvanised steel angle housing and galvanised



# TRAFFIC GUGI®BLOC+

## Channels

### TRAFFIC GUGI®BLOC+, up to class F 900

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 010	1000	700	575	1055	720,00	10008
type 010	4000	700	575	1055	2 820,00	10009
type 010, repair piece	1000	700	575	1055	720,00	10012
type 010, repair piece	4000	700	575	1055	2 820,00	10013
type 010 as T-part, 1 m	1000	700	575	1055	720,00	10015

## Accessories

### Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
upper part with galavnised steel angle housing	1000	700	575	640,00	10014
upper part, with galvanised steel angle housing, repair piece	1000	700	575	640,00	10104
two parts, with galvanised steel angle housing and galvanised bucket	1000	700	1125	-	10105
two parts, with galvanised steel angle housing and galvanised bucket, repair piece	1000	700	1125	-	10106
trash box, upper part, ductile iron angle housing	1000	700	575	640,00	10121
trash box, upper part, ductile iron angle housing, repair piece	100	700	575	640,00	10122
trash box 2-pieces, galvanised bucket, ductile iron angle housing	1000	700	1125	-	10123
trash box 2-pieces, galvanised bucket, ductile iron angle housing, repair piece	1000	700	1125	-	10124
ductile iron grating GUGI MW 15/25, black	500	379	40	21,80	4068
ductile iron grating, slotted SW 2 x 136/20, black	500	379	40	23,20	4061
hexagonal bolt with collar for grate fixing, with locking teeth, black zinc pl. M10x50, SW19	-	-	-	0,04	33100

### End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
connection plate	-	692	502	3,75	10107
end cap with outlet DN 200, galvanised	-	692	502	3,96	10205
end cap with outlet DN 315, galvanised	-	692	502	5,00	10207

### Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
sealing gasket with cross section dimensions 20 x 20 mm, 1 m	-	20	20	0,57	10095

Type 010,  
4,0 m



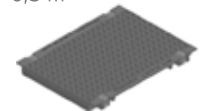
Type 010, repair piece  
4,0 m



upper part, with  
galvanised steel angle  
housing, repair piece



ductile iron grating  
GUGI MW 15/25, black  
0,5 m



connection plate



# TRAFFIC GUGI®BLOC+

The sample installation instructions\*

More installation instructions can be found on our website [hauraton.com](http://hauraton.com)

## Asphalt, class F 900

Przykład zabudowy  
Nawierzchnia asfaltowa do kl. F 900

Bitumiczna taśma dylatacyjna

Warstwa ścierna nawierzchni  
Warstwa wiążąca  
Bitumiczna warstwa nośna

Podłoże spełniające wymaganą nośność według projektu

Spoina konstrukcyjna (z zabezpieczeniem przed ścinaniem wyznaczonym przez projektanta).

Podbudowa musi zapewniać możliwość przeniesienia obciążeń z odwodnienia liniowego w kierunku poziomym i pionowym

\* y ≥ wysokość korytka pomniejszona o - 26 cm

Klasa obciążenia według normy PN EN 1433 / DIN 19590	A 15	B 125	C 250	D 400**	E 600**	F 900**	Obowiązuje dla następujących systemów:
Fundament: szerokość x / wysokość y / grubość z (w cm)						20 / 1 / 20	TRAFFIC GUGIBLOC+ 300
EN 206-1 / DN 1045-2	Klasa betonu oparte						
Podane klasy betonu to klasy estymacji	Fundament na nasadzie na przemieszczanie						C25/30 X0
	Fundament nasadzie na przemieszczanie						C25/30 XF3

Ważne wskazówki i przykłady zabudowy są regulowane dostosowaniem do obecnego stanu techniki. W przypadku nowych obiektów starych trawie ewentualnie. Proszę być precyzyjnym i dokładnie sprawdzić aktualny stan na stronie [www.hauraton.com](http://www.hauraton.com)

Przykład zabudowy stanowi szerokość rekomendacji firmy HAURATON. Ostateczna odpowiedzialność za wykonanie spoczywa na projektancie. Należy wziąć pod uwagę specyficzne warunki projektu.

\*\* Stosowanie systemów odwodnienia w miejscach o dużych obciążeniach dynamicznych (np. lotniska, drogi ekspresowe, place parkingowe, stacje kolejowe, samolotowe i inne) nie jest wystarczająco uwzględnione zgodnie z normą PN EN 1433. W przypadku takich zastosowań prosimy o kontakt w celu opracowania indywidualnych rozwiązań dla danego projektu.

Stan na dzień: 03.06.2022

Obowiązują ogólne zasady zabudowy

Format DIN A4

Skala 1:10

hauraton

ul. Ostrowska 388  
53-312 Pleszch  
POLSKA

tel. +48 601704353  
biuro@hauraton.com

0000140003\_POLISH.dwg 11 EBBw

RF-GB+300-RIAbd 1m-Stuck, Einbaubeispiel Klasse F 900 in Asphalt

## Concrete, class F 900

Przykład zabudowy  
Nawierzchnia betonowa do kl. F 900

Wypelnienie uszczelnieniem w razie potrzeby

Szczelina dylatacyjna zgodna z normą

Beton jezdny

Geowłóknina

Warstwa nośna

Podłoże spełniające wymaganą nośność według projektu

Spoina konstrukcyjna (z zabezpieczeniem przed ścinaniem wyznaczonym przez projektanta).

Podbudowa musi zapewniać możliwość przeniesienia obciążeń z odwodnienia liniowego w kierunku poziomym i pionowym

\* y ≥ wysokość korytka pomniejszona o - 24 cm

Klasa obciążenia według normy PN EN 1433 / DIN 19590	A 15	B 125	C 250	D 400**	E 600**	F 900**	Obowiązuje dla następujących systemów:
Fundament: szerokość x / wysokość y / grubość z (w cm)						20 / 1 / 20	TRAFFIC GUGIBLOC+ 300
EN 206-1 / DN 1045-2	Klasa betonu oparte						
Podane klasy betonu to klasy estymacji	Fundament na nasadzie na przemieszczanie						C25/30 X0
	Fundament nasadzie na przemieszczanie						C25/30 XF3

Ważne wskazówki i przykłady zabudowy są regulowane dostosowaniem do obecnego stanu techniki. W przypadku nowych obiektów starych trawie ewentualnie. Proszę być precyzyjnym i dokładnie sprawdzić aktualny stan na stronie [www.hauraton.com](http://www.hauraton.com)

Przykład zabudowy stanowi szerokość rekomendacji firmy HAURATON. Ostateczna odpowiedzialność za wykonanie spoczywa na projektancie. Należy wziąć pod uwagę specyficzne warunki projektu.

\*\* Stosowanie systemów odwodnienia w miejscach o dużych obciążeniach dynamicznych (np. lotniska, drogi ekspresowe, place parkingowe, stacje kolejowe, samolotowe i inne) nie jest wystarczająco uwzględnione zgodnie z normą PN EN 1433. W przypadku takich zastosowań prosimy o kontakt w celu opracowania indywidualnych rozwiązań dla danego projektu.

Stan na dzień: 03.06.2022

Obowiązują ogólne zasady zabudowy

Format DIN A4

Skala 1:10

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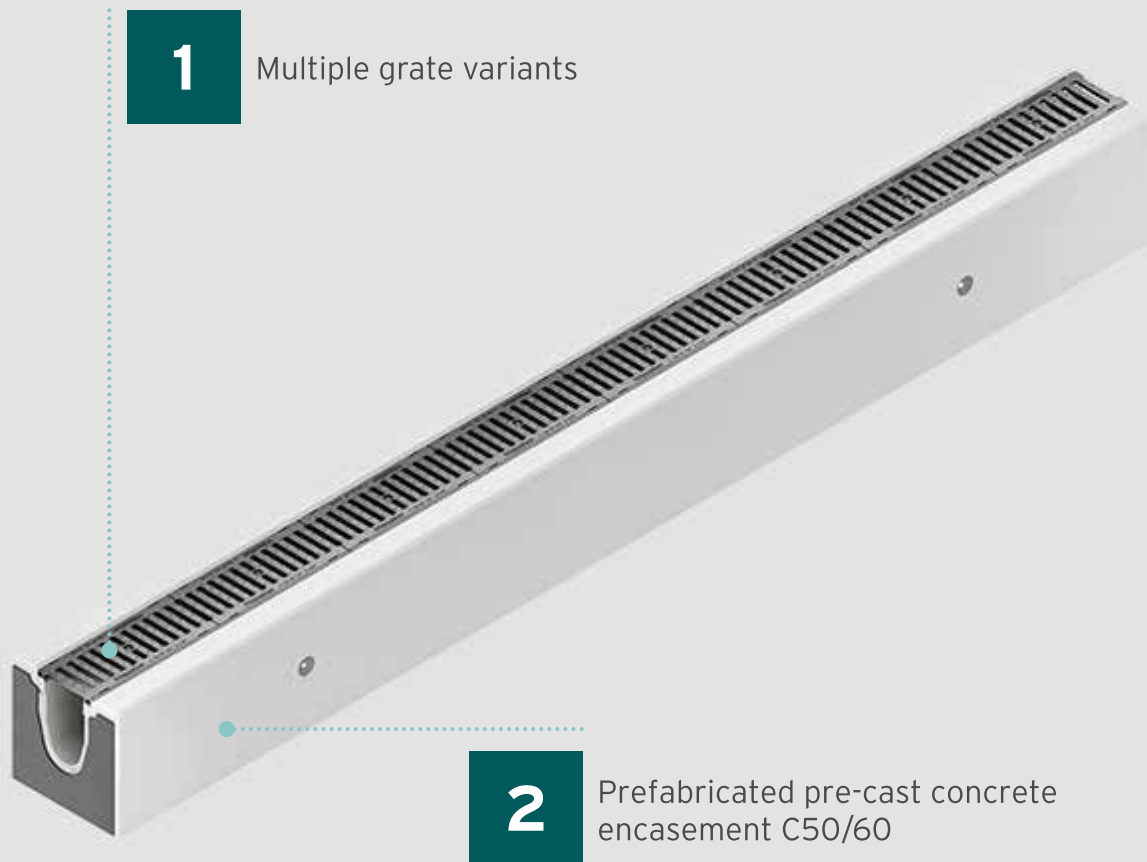
0000140001\_POLISH.dwg 11 EBBw

RF-GB+300-RIAbd 1m-Stuck, Einbaubeispiel Klasse F 900 in Beton

Need more information and technical support?  
Feel free to contact our Technical Department: [dzial-techniczny@hauraton.com](mailto:dzial-techniczny@hauraton.com).

\* The sample installation instructions included in the Price List are current as of the date of issue of the Price List. You will find the most up-to-date and complete material on our website [www.hauraton.com](http://www.hauraton.com).

# FASERFIX®KS+



**1**

Multiple grate variants

**2**

Prefabricated pre-cast concrete encasement C50/60

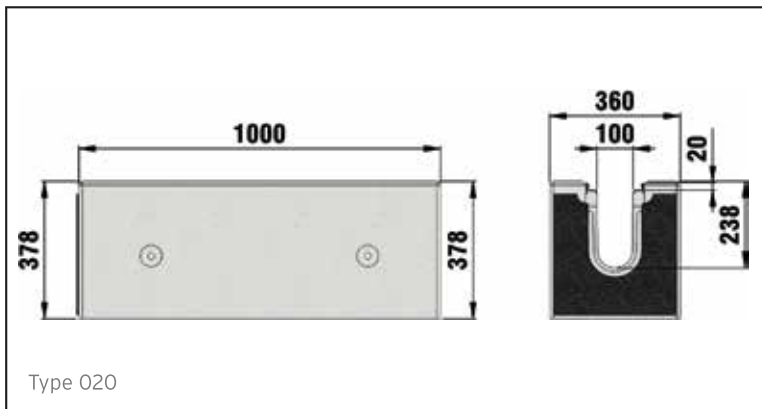
## IDEAL FOR ...

locations where fast build-up is required, particularly at entrances to buildings, areas with increased traffic, up to class E 600.

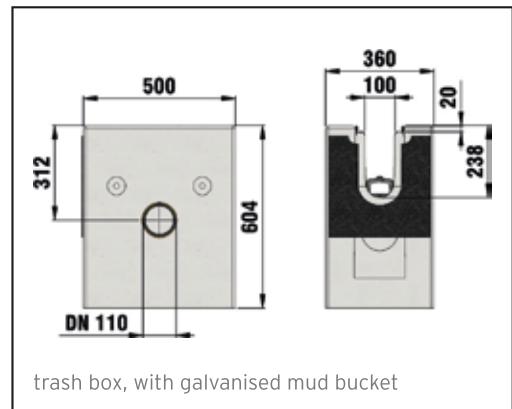
# FASERFIX®KS+ 100



Type 020, 1 m



Type 020



trash box, with galvanised mud bucket

# FASERFIX®KS+ 100

## Channels

### FASERFIX®KS+ 100, channels up to class E 600

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 020	1000	360	378	206	290,00	33300
type 020	4000	360	378	206	1160,00	33301
type 100 F	1000	510	230	54	269,00	33302
type 100 F	4000	510	230	54	1076,00	33303

Channels with integrated concrete runners are equipped with spherical head anchor 1,3 t (head's diameter - 19 mm, pivot's diameter 10 mm).

The product does not include universal head-links.

Channels available also with stainless steel anchor housings, available also in anthracite and other colors, as well as with different concrete runner patterns.

Shallow channels available with protection tubes that enable dowelling with concrete surface.

Type 020  
4,0 m



Type 20  
1,0 m



Type 100 F  
4,0 m



Type 100F  
1,0 m



# FASERFIX®KS+ 100

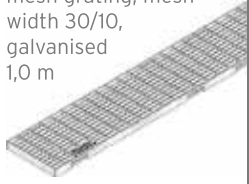
## Gratings / covers

### FASERFIX®KS+ 100, class B 125

GUGI-PA-Mesh grating  
MW 15/25, black  
0,5 m



mesh grating, mesh  
width 30/10,  
galvanised  
1,0 m



mesh grating  
MW 30/30, galvanised  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI-PA-Mesh grating MW 15/25, black	500	149	20	426	0,90	8099
mesh grating, mesh width 30/10, galvanised	1000	149	20	1322	4,00	8151
mesh grating, mesh width 30/10, galvanised	500	149	20	1306	2,00	8152
mesh grating MW 30/30, galvanised	1000	149	20	878	3,00	8077
mesh grating MW 30/30, galvanised	500	149	20	869	1,50	8078

# FASERFIX®KS+ 100

## FASERFIX®KS+ 100, class C 250

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 14 mm, black	500	149	20	462	3,41	28064
ductile iron grating, SW 14 mm, KTL-coated	500	149	20	462	3,30	8864
ductile iron grating SW 6 mm, black	500	149	20	280	3,60	28068
ductile iron grating, SW 6 mm, KTL-coated	500	149	20	280	3,60	8868
ductile iron grating SW 100/6 mm, galvanised	500	149	20	280	3,60	29868
ductile iron grating SW 100/14 mm, galvanised	500	149	20	462	3,41	29864
longitudinal ductile iron grating, bar distance 9 mm, galvanised	500	149	20	528	3,65	8876
longitudinal ductile iron grating, bar distance 9 mm, KTL	500	149	20	528	3,65	8875
FIBRETEC design slotted grating SW 9 mm, in the colour black	500	149	20	372	1,05	8098
FIBRETEC slotted grating, in the colour sand, SW 9 mm	500	149	20	372	1,05	8100
FIBRETEC slotted grating, in the colour fern, SW 9 mm	500	149	20	372	1,05	8102
FIBRETEC slotted grating SW 9 mm, in the colour stone	500	149	20	372	1,05	8101
mesh grating, mesh width: 30/10, galvanised	1000	149	20	1285	5,00	8154
mesh grating mesh width: 30/10, galvanised	500	149	20	1268	2,60	8155
mesh grating MW 30/30, galvanised	1000	149	20	828	4,40	28073
mesh grating MW 30/30, galvanised	500	149	20	819	2,20	28074
reinforced slotted grating SW 80/10 mm	1000	149	20	281	5,28	28167
reinforced slotted grating SW 80/10 mm	500	149	20	281	2,60	28168
perforated grating diam. 6 mm, galvanised	1000	149	20	191	5,30	28171
perforated grating diam. 6 mm, galvanised	500	149	20	191	2,60	28172

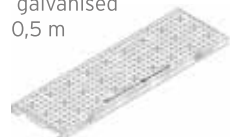
mesh grating  
MW 30/30, galvanised  
0,5 m



reinforced slotted  
grating SW 80/10 mm  
0,5 m



perforated grating  
diam. 6 mm,  
galvanised  
0,5 m



The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

# FASERFIX®KS+ 100

## Gratings / covers

### FASERFIX®KS+ 100, class D 400\*

ductile iron grating  
Metropolis,  
KTL-coated  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 100/14 mm, galvanised	500	149	20	462	3,66	29863
ductile iron grating SW 100/14 mm, black	500	149	20	462	3,66	28063
ductile iron grating, SW 14 mm, KTL-coated	500	149	20	462	3,70	8863
ductile iron grating Metropolis, KTL-coated	500	149	20	165	5,10	8871
ductile iron grating Metropolis, galvanised	500	149	20	165	5,10	8872
longitudinal ductile iron grating	500	149	20	528	4,15	8869
longitudinal ducitle iron grating	500	149	20	528	4,15	8870

**Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system**



# FASERFIX®KS+ 100

## FASERFIX®KS+ 100, class E 600

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 100/14 mm, black	500	149	20	462	4,14	28062
ductile iron grating SW 100/6 mm, black	500	149	20	280	4,14	28066
ductile iron grating, SW 100/14 mm, KTL-coated	500	149	20	462	4,20	8862
ductile iron grating, SW 100/6 mm, KTL-coated, black	500	149	20	280	4,00	8866
GUGI Ductile iron mesh grating, MW 15/25 mm, black	500	149	20	426	4,50	28079
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, KTL-coated	500	149	20	426	4,50	8879
GUGI Ductile iron mesh grating, MW 15/25 mm, galvanised	500	149	20	426	4,60	28080
mesh grating MW 11/30, galvanised	1000	149	20	695	11,00	28071
mesh grating MW 11/30, galvanised	500	149	20	695	5,85	28072

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

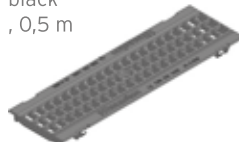
ductile iron grating  
SW 100/14 mm, black  
0,5 m



ductile iron grating,  
SW 100/6 mm,  
KTL-coated, black  
0,5 m



GUGI Ductile iron mesh  
grating, MW 15/25 mm,  
black  
, 0,5 m



mesh grating MW 11/30,  
galvanised  
0,5 m



# FASERFIX®KS+ 100

trash box with galvanised steel angle housing, with plastic bucket and joint plate 0,5 m



## Accessories

### Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box, with galvanised mud bucket	500	360	604	200,00	33306
trash box with galvanised steel angle housing, with plastic bucket and joint plate	500	360	604	250,00	10137

end cap closed, galvanised, type 11 - 020



end cap with horizontal PVC-U pipe outlet DN/OD 110, type 11 - 020



### End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 11 - 020	-	160	274	0,60	8083
end cap with horizontal PVC-U pipe outlet DN/OD 110, type 11 - 020	-	160	274	0,70	8089
end cap closed, galvanised, type 100F	-	160	100	0,20	1183

# FASERFIX®KS+ 100

## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
joint plate for channel type 020*	5	340	333	0,50	33304
joint plate for channel type 100F*	5	490	195	0,50	33305
foul air trap for trash boxes 100, horizontal with sealing, DN/OD 110, for lateral connection	-	-	-	0,11	966
foul air trap DN/OD 110, for vertical outlet	-	-	103	0,24	964
foul air trap DN/OD 110, external	-	-	100	0,37	961
PVC-U pipe outlet, DN/OD 110	-	-	-	0,20	903
plastic bucket for trash box	426	88	283	0,45	33010
mud bucket vertical DN/OD 110, black	100	100	85	0,04	40293
locking handle for ductile iron gratings and composite mesh gratings	28	117	35	0,11	98210
locking handle for slotted grating/reinforced slotted grating galvanised/stainless steel	28	117	35	-	98211
locking handle for perforated grating galvanised/stainless steel also for longitudinal ductile iron grating, galvanised	28	117	40	-	98212
locking handle for FIBRETEC design slotted grating also for longitudinal ductile iron grating, KTL coated	28	117	50	0,04	98213
sealing material, poly-tube bag 600 ml**	-	-	-	1,00	19050
transportation loops	-	-	-	-	RD00

\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

\*\* Usage: approximately 100 ml per connection.

## Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
drilling of connecting holes DN/OD 110	-	-	-	-	33332

foul air trap for trash boxes 100, horizontal with sealing, DN/OD 110, for lateral connection



foul air trap DN/OD 110, for vertical outlet



plastic bucket for trash box 500 mm



mud bucket vertical DN/OD 110, black



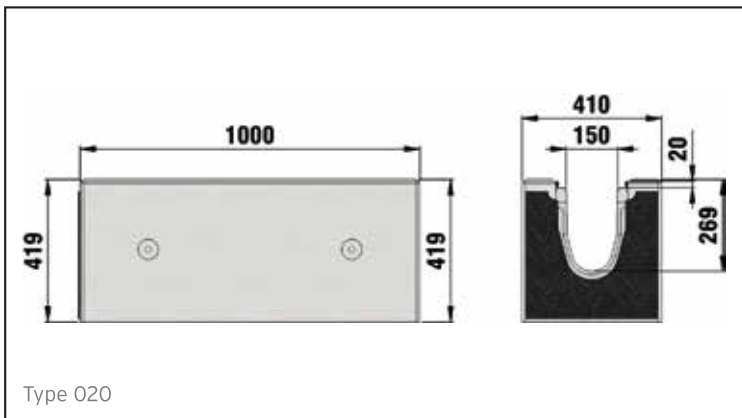
drilling of connecting holes DN/OD 110



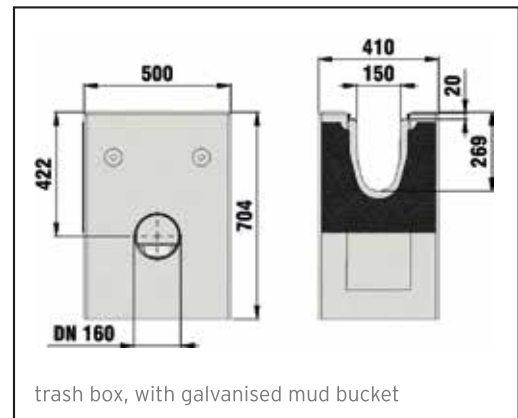
# FASERFIX®KS+ 150



Type 020, 1 m,



Type 020



trash box, with galvanised mud bucket

# FASERFIX®KS+ 150

## Channels

### FASERFIX®KS+ 150, channels, up to class E 600

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 020	1000	410	419	312	340,00	33310
type 020	4000	410	419	312	1360,00	33311
type 110 F	1000	510	230	74	262,00	33312
type 110 F	4000	510	230	71	1048,00	33313

Channels with integrated concrete runners are equipped with spherical head anchor 1,3 t (head's diameter - 19 mm, pivot's diameter 10 mm).

The product does not include universal head-links.

Channels available also with stainless steel anchor housings, available also in anthracite and other colors, as well as with different concrete runner patterns.

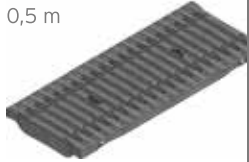


# FASERFIX®KS+ 150

## Gratings / covers

### FASERFIX®KS+ 150, class B 125

FIBRETEC design  
slotted grating  
SW 9 mm, black  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
FIBRETEC design slotted grating SW 9 mm, black	500	199	20	500	2,00	11098

### FASERFIX®KS+ 150, class C 250

mesh grating  
MW 30/10 galvanised  
0,5 m



mesh grating  
MW 30/30 galvanised  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 132/20 mm, black	500	199	20	631	4,53	11064
ductile iron grating, SW 132/20 mm, black, KTL-coated	500	199	20	631	5,30	11264
ductile iron grating SW 132/20, galvanised	500	199	20	631	4,53	11364
mesh grating MW 30/10 galvanised	1000	199	20	1105	7,20	11075
mesh grating MW 30/10 galvanised	500	199	20	1105	3,70	11076
mesh grating MW 30/30 galvanised	1000	199	20	1240	5,90	11073
mesh grating MW 30/30 galvanised	500	199	20	1240	3,40	11074
FIBRETEC design slotted grating SW 9 mm, in the colour black	500	199	20	500	2,02	11099

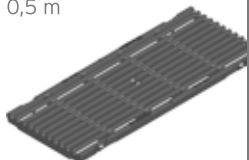
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

### FASERFIX®KS+ 150, class D 400\*

ductile iron grating,  
SW 132/18 mm, black  
0,5 m



longitudinal ductile  
iron grating SW 9  
mm, black,  
KTL-coated, locked  
0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 132/18 mm, black	500	199	20	553	5,30	11463
ductile iron grating SW 132/18 mm, black, KTL-coated, locked	500	199	20	553	5,30	11563
longitudinal ductile iron grating SW 9 mm, black, KTL-coated, locked	500	199	20	740	6,93	11269
longitudinal ductile iron grating SW 9 mm, galvanised	500	199	20	740	6,93	11369

Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

# FASERFIX®KS+ 150

## FASERFIX®KS+ 150, class E 600

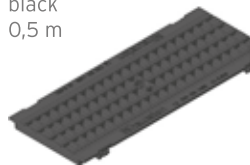
	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating, SW 132/9 mm, black	500	199	20	524	6,67	11066
ductile iron grating, SW 132/9 mm, black, KTL-coated, locked	500	199	20	524	6,70	11266
GUGI-Ductile iron mesh grating, MW 15/25 mm, black	500	199	20	716	7,41	11068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated	500	199	20	716	7,80	11268
mesh grating MW 11/30 galvanised	1000	199	20	981	18,80	11071
mesh grating MW 11/30 galvanised	500	199	20	981	9,70	11072

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

ductile iron grating,  
SW 132/9 mm, black  
0,5 m



GUGI-Ductile iron mesh  
grating, MW 15/25 mm,  
black  
0,5 m



mesh grating MW 11/30  
galvanised  
0,5 m



# FASERFIX®KS+ 150

## Accessories

### Trash box

trash box, with galvanised mud bucket  
0,5 m



	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box, with galvanised mud bucket	500	410	704	260,00	33316

### End caps

end cap closed, type  
015/ 020, galvanised



end cap with PVC-U  
pipe outlet DN/OD  
160, type 015 / 020,  
galvanised



	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, type 015/ 020, galvanised	-	210	315	1,00	11083
end cap with PVC-U pipe outlet DN/OD 160, type 015 / 020, galvanised	-	210	315	1,10	11088
end cap closed, type 110F, galvanised	-	210	110	0,35	2181



# FASERFIX®KS+ 150

## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
joint plate for channel type 020*	5	340	333	0,50	33314
joint plate for channel type 110F*	5	490	195	0,50	33315
foul air trap DN/OD 116, external	584	160	439	2,00	960
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
mud bucket made of modified composite for DN/OD 160, black	-	-	-	0,13	845
locking handle for FIBRETEC all ductile iron gratings	162	27	-	0,10	98260
locking handle, suitable for mesh gratings, galvanised	-	-	-	0,10	98265
transportation loops	-	-	-	-	RD00

\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

## Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
drilling of connecting holes DN/OD 110	-	-	-	-	33332

foul air trap DN/OD 116, external



PVC-U pipe connection element DN/OD 160



mud bucket for outlet DN/OD 160



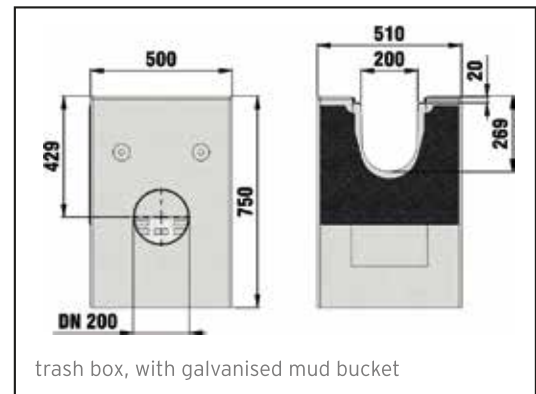
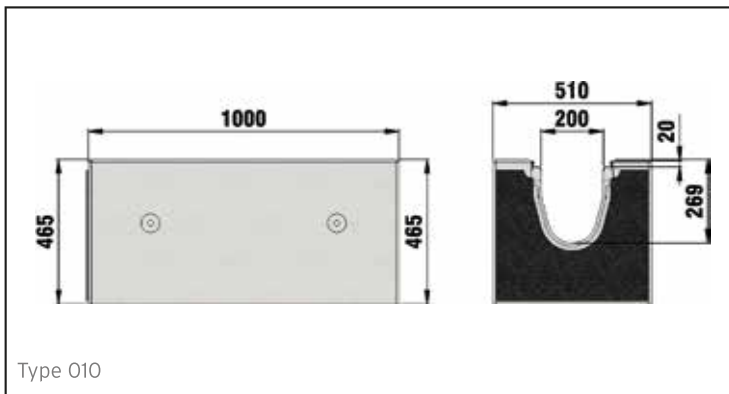
drilling of connecting holes DN/OD 110



# FASERFIX®KS+ 200



Type 020, 1 m



# FASERFIX®KS+ 200

## Channels

### FASERFIX®KS+ 200, channels up to class E 600

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Weight kg	Item No
type 010	1000	510	465	409	472,50	33319
type 010	4000	510	465	409	1890,00	33320
type 020	1000	510	465	509	449,00	33321
type 020	4000	510	465	509	1797,00	33322
type 110 F	1000	510	230	97	252,00	33323
type 110 F	4000	510	230	97	1008,00	33324

Channels with integrated concrete runners are equipped with spherical head anchor 1,3 t (head's diameter - 19 mm, pivot's diameter 10 mm).

The product does not include universal head-links.

Channels available also with stainless steel anchor housings, available also in anthracite and other colors, as well as with different concrete runner patterns.

Shallow channels available with protection tubes that enable dowelling with concrete surface.



# FASERFIX®KS+ 200

## Gratings / covers

### FASERFIX®KS+ 200, gratings, class B 125

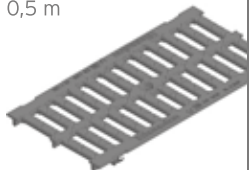
FIBRETEC Slotted grating, SW 100/9 mm, black 0,5 m



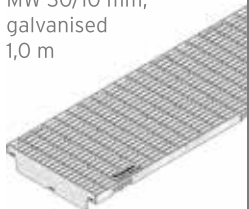
	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
FIBRETEC Slotted grating, SW 100/9 mm, black	500	249	20	656	2,11	12098

### FASERFIX®KS+ 200, gratings, class 250

ductile iron grating SW 2x 85/20, black 0,5 m



mesh grating MW 30/10 mm, galvanised 1,0 m



mesh grating MW 30/30 mm, galvanised 0,5 m



	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
ductile iron grating SW 2x 85/20, black	500	249	20	824	5,64	12064
ductile iron grating SW 2x85/20 mm, black, KTL-coated, locked	500	249	20	824	5,80	12264
mesh grating MW 30/10 mm, galvanised	1000	249	20	1500	10,80	12075
mesh grating MW 30/10 mm, galvanised	500	249	20	1500	5,50	12076
mesh grating MW 30/30 mm, galvanised	1000	249	20	1681	9,20	12073
mesh grating MW 30/30 mm, galvanised	500	249	20	1681	4,60	12074

# FASERFIX®KS+ 200

## FASERFIX®KS+ 200, gratings, class D 400\*

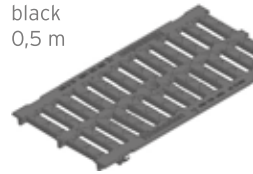
	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
G-TEC Ductile iron grating SW 2 x 85/9 mm, galvanised	500	249	20	595	7,90	12366
G-TEC Ductile iron grating SW 9 mm, black, KTL-coated, locked	500	249	20	595	8,25	12266
ductile iron longitudinal grating SW 9 mm, black, KTL-coated, locked	500	249	20	951	9,43	12269
ductile iron longitudinal grating SW 9 mm, galvanised	500	249	20	951	9,43	12369
ductile iron grating SW 2x 85/18 mm, black	500	249	20	724	6,83	12463
ductile iron grating SW 2x 85/18 mm, black, KTL-coated, locked	500	249	20	724	6,90	12763
ductile iron grating Metropolis, KTL-coated	500	249	20	279	10,70	12275
ductile iron grating Metropolis 0,5m, galvanised	500	249	20	279	10,80	12375
ductile iron grating as tactile indicator for the visually impaired, black, locked, KTL-coated	500	249	20	606	10,07	12271
ductile iron grating as indicator for the visually impaired, galvanised	500	249	20	606	10,07	12371

Not for use across the carriageway of highways or motorways in moving traffic. For those areas we recommend FASERFIX®TRAFFIC system

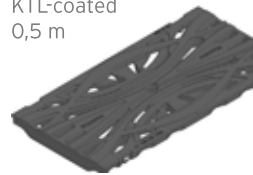
## FASERFIX®KS+ 200, gratings, class 600

	Lenght mm	Width mm	Height mm	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
GUGI-ductile iron mesh grating, MW 15/25 mm, black	500	249	20	867	9,50	12068
GUGI-Ductile iron mesh grating, KTL-coated	500	249	20	867	9,70	12268
mesh grating MW 11/30 mm	1000	249	20	1309	28,40	12071
mesh grating MW 11/30 mm	500	249	20	1309	14,60	12072

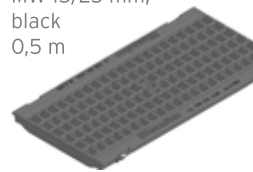
ductile iron grating  
SW 2x 85/18 mm,  
black  
0,5 m



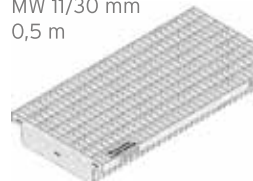
ductile iron grating  
Metropolis,  
KTL-coated  
0,5 m



GUGI-ductile iron  
mesh grating,  
MW 15/25 mm,  
black  
0,5 m



mesh grating  
MW 11/30 mm  
0,5 m



# FASERFIX®KS+ 200

trash box, with galvanised mud bucket



## Accessories

### Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box, with galvanised mud bucket	500	510	750	320,00	33328
trash box with galvanised angle housing, with galvanised bucket, with socket DN/OD 200, type 020	500	510	750	320,00	33329

end cap closed, galvanised, type 010



end cap with PVC-U pipe outlet DN/OD 160, galvanised, type 010



### End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 010	-	260	320	1,28	12082
end cap with PVC-U pipe outlet DN/OD 160, galvanised, type 010	-	260	320	1,49	12087
end cap closed, galvanised, type 020	-	260	370	1,50	12083
end cap with PVC-U pipe outlet DN/OD 150, galvanised, type 020	-	260	370	1,66	12088
end cap, closed, type 110 F	-	260	110	0,43	3181

# FASERFIX®KS+ 200

## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
joint plate for channel type 010*	5	490	420	0,50	33325
connector for type 020*	5	-	-	1,00	33326
joint plate for channel type 110F*	5	490	195	-	33327
PVC-connection DN/OD 200	-	-	-	0,80	907
mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
locking handle galvanised with screw	219	28	-	0,25	98221
transportation loops	-	-	-	-	RD00

\* Supplied in a set of 1 piece for each plate. The profile is not supplied with the trash box.

## Other equipment

	Lenght mm	Width mm	Height mm	Weight kg	Item No
drilling of connecting holes DN/OD 110	-	-	-	-	33332

PVC-connection DN/  
OD 200



mud bucket for outlet  
DN/OD 160



locking handle galvani-  
sised with screw

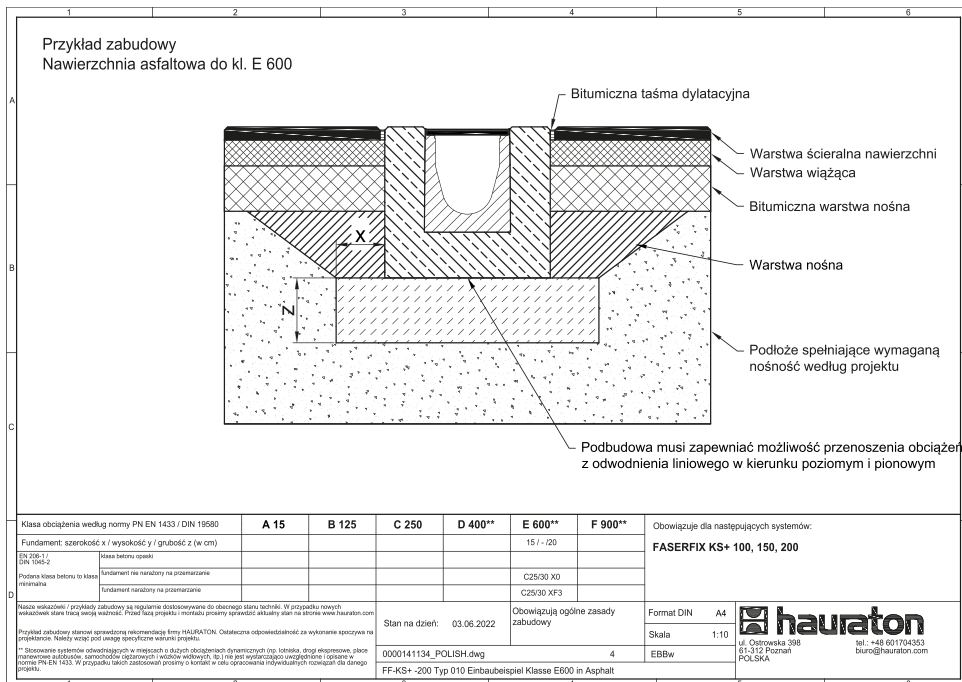


drilling of connecting  
holes DN/OD 110

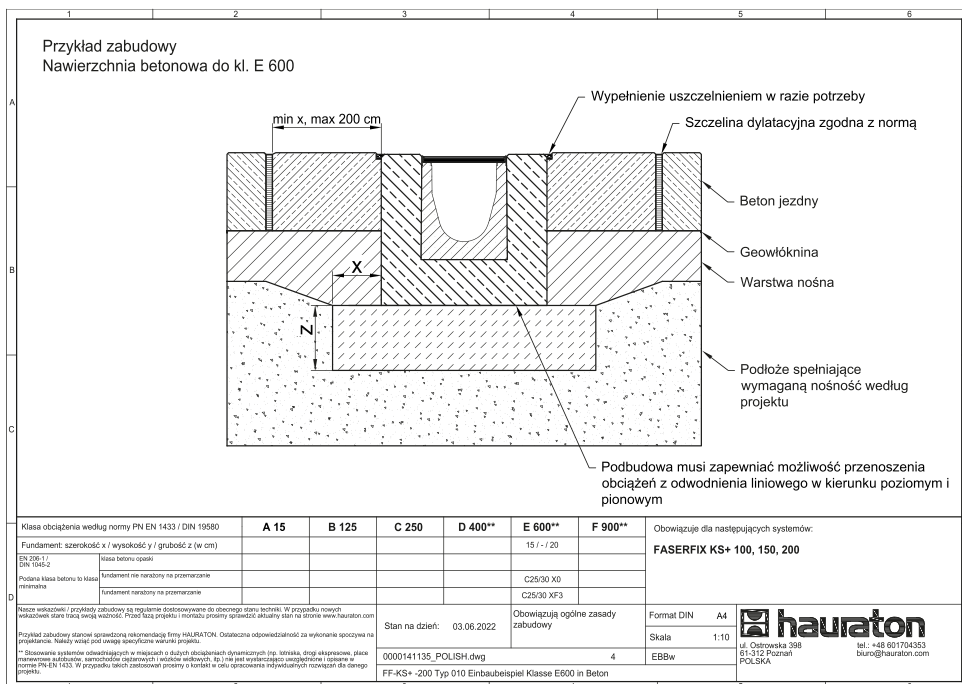


More installation instructions can be found on our website [hauraton.com](http://hauraton.com)

### Asphalt, class E 600



### Concrete, class E 600

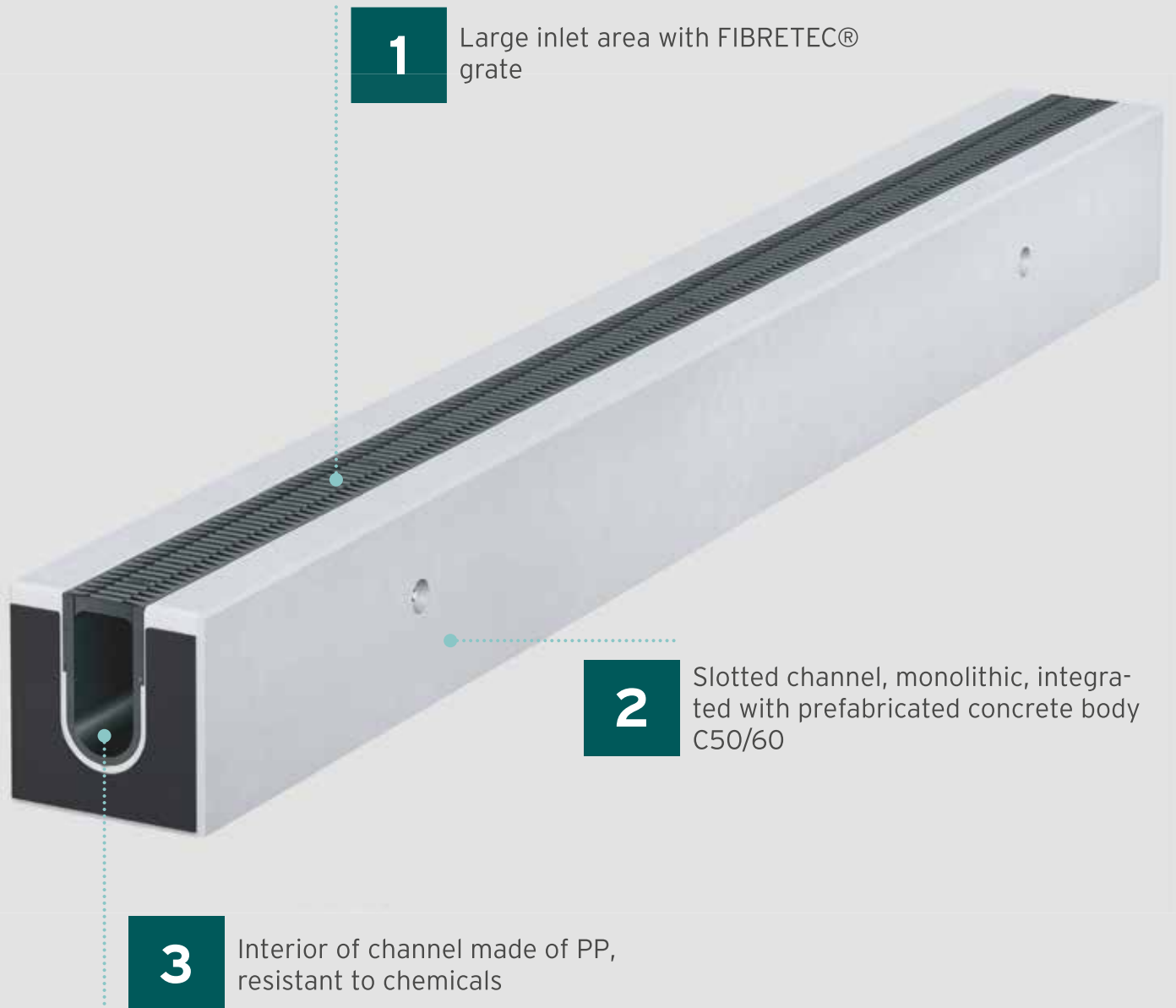


Need more information and technical support?  
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# MONOTEC+



**1**

Large inlet area with FIBRETEC® grate

**2**

Slotted channel, monolithic, integrated with prefabricated concrete body C50/60

**3**

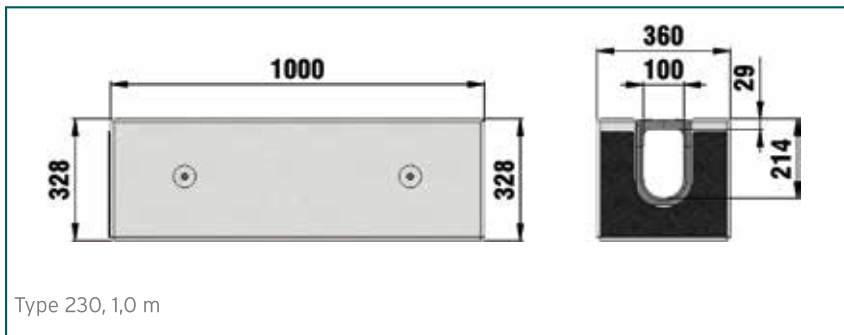
Interior of channel made of PP, resistant to chemicals

**IDEAL FOR ...**  
 high traffic areas with high hydraulic capacity up to class D 400, e.g. supermarkets, car parks and petrol stations.

# MONOTEC+ 100



Type 230, 1,0 m



Type 230, 1,0 m

# MONOTEC+ 100

## Monolithic channles MONOTEC+ up to class D 400

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
type 230	1000	360	328	190	190,5	240,00	10133
type 230	4000	360	328	190	190,5	1000,00	10134
type 280	1000	360	368	245	372,0	287,500	10135
type 280	4000	360	368	245	372,0	1 150,00	10136

## Accessories Trash box

	Lenght mm	Width mm	Height mm	Weight kg	Item No
trash box, DN 200*	500	360	604	250,00	10137
ductile iron grating SW 100/14 mm, black	500	149	20	3,70	28063

## Access elements

	Lenght mm	Width mm	Height mm	Drainage cross-sect. cm <sup>2</sup>	Surface inlet cm <sup>2</sup> /m	Weight kg	Item No
type 230, with integrated access element	1000	360	328	130	351	245,00	10138
type 280, with integrated access element	1000	360	368	185	351	267,00	10139

## End caps

	Lenght mm	Width mm	Height mm	Weight kg	Item No
end cap closed, galvanised, type 230	-	150	224	0,50	36080
end cap with horizontalPVC-U pipe outlett DN/OD 110, galvanised, type 230	-	150	224	0,70	36090
end cap closed, galvanised, type 280	-	150	274	0,60	36082
end cap with PVC-U pipe outlet DN/OD 110, type 280, galvanised	-	150	274	0,80	36092

## Further accessories

	Lenght mm	Width mm	Height mm	Weight kg	Item No
transportation loops	-	-	-	-	RD00
joint plate for channel type 230	5	340	283	0,02	10129
joint plate for channel type 280	5	340	323	0,02	10130

Type 230  
4,0 m



Type 280  
4,0 m



trash box, DN 200\*



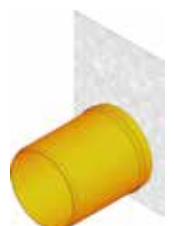
Type 230, with integ-  
rated access element  
1,0 m



Type 280, with integ-  
rated access element  
1,0 m



end cap with horizon-  
talPVC-U pipe outlett  
DN/OD 110, galvani-  
sed, type 230



More installation instructions can be found on our website [hauraton.com](http://hauraton.com)

### Asphalt, class A 15 - D 400

**Przykład zabudowy**  
Nawierzchnia asfaltowa do kl. A 15 - D 400

Klasa obciążenia według normy PN EN 1433 / DIN 19590	A 15	B 125	C 250	D 400**	E 600**	F 900**	Obowiązuje dla następujących systemów:
Fundament: szerokość x / wysokość y / grubość z (w cm)	10 / - / 5	10 / - / 5	15 / - / 5	15 / - / 5			<b>MONOTEC+ 100</b>
EN 205-1 / EN 1045-2	Klasa betonu oparte						
Podane klasa betonu to klasa minimalna	Fundament na nasadzie na przemieszczanie	C25/30 X0	C25/30 X0	C25/30 X0	C25/30 X0		
	Fundament nasadzie na przemieszczaniu	C25/30 XF3	C25/30 XF3	C25/30 XF3	C25/30 XF3		
* Należy skontaktować i przesyłać załączniki do wykonania dobiornego stanu technicznego. W przypadku nowych zestawów stare rysunki są wyczerpane. Proszymy o aktualizację rysunków aktualny stan na stronie <a href="http://www.hauraton.com">www.hauraton.com</a>				Stan na dzień: 03.06.2022		Obowiązują ogólne zasady zabudowy	Format DIN A4 Skala 1:6 EBBw
Przykład zabudowy stanowi sprawną rekomendację firmy HAURATON. Odstępuje odpowiedzialność za wykonanie spójnego na projekcie. Należy wziąć pod uwagę specyficzne warunki projektu.				0000141016_POLISH.dwg		ul. Ostrowska 388 53-312 Pleszch POLSKA tel.: +48 601704353 biuro@hauraton.com	
** Stosowanie systemów odwadnianych w miejscach o dużych obciążeniach dynamicznych (np. składowiska, drogi ekspresowe, placy manewrowe w lotnictwie, samolotywozowiska i lotniska wodne, itp.) nie jest wystarczająco bezpiecznym rozwiązaniem zgodnie z normą PN EN 1433. W przypadku takich zastosowań prosimy o kontakt z oddziałem technicznym lub oddziałem ds. drogowej firmy.				MONOTEC+ 100 Einbaueispiel D 400 in Asphalt			

### Concrete, class A 15 - D 400

**Przykład zabudowy**  
Nawierzchnia betonowa do kl. A 15 - D 400

Klasa obciążenia według normy PN EN 1433 / DIN 19590	A 15	B 125	C 250	D 400**	E 600**	F 900**	Obowiązuje dla następujących systemów:
Fundament: szerokość x / wysokość y / grubość z (w cm)	10 / - / 5	10 / - / 5	15 / - / 5	15 / - / 5			<b>MONOTEC+ 100</b>
EN 205-1 / EN 1045-2	Klasa betonu oparte						
Podane klasa betonu to klasa minimalna	Fundament na nasadzie na przemieszczanie	C25/30 X0	C25/30 X0	C25/30 X0	C25/30 X0		
	Fundament nasadzie na przemieszczaniu	C25/30 XF3	C25/30 XF3	C25/30 XF3	C25/30 XF3		
* Należy skontaktować i przesyłać załączniki do wykonania dobiornego stanu technicznego. W przypadku nowych zestawów stare rysunki są wyczerpane. Proszymy o aktualizację rysunków aktualny stan na stronie <a href="http://www.hauraton.com">www.hauraton.com</a>				Stan na dzień: 03.06.2022		Obowiązują ogólne zasady zabudowy	Format DIN A4 Skala 1:6 EBBw
Przykład zabudowy stanowi sprawną rekomendację firmy HAURATON. Odstępuje odpowiedzialność za wykonanie spójnego na projekcie. Należy wziąć pod uwagę specyficzne warunki projektu.				0000141130_POLISH.dwg		ul. Ostrowska 388 53-312 Pleszch POLSKA tel.: +48 601704353 biuro@hauraton.com	
** Stosowanie systemów odwadnianych w miejscach o dużych obciążeniach dynamicznych (np. składowiska, drogi ekspresowe, plac manewrowy w lotnictwie, samolotywozowiska i lotniska wodne, itp.) nie jest wystarczająco bezpiecznym rozwiązaniem zgodnie z normą PN EN 1433. W przypadku takich zastosowań prosimy o kontakt z oddziałem technicznym lub oddziałem ds. drogowej firmy.				MONOTEC+ 100 Einbaueispiel D 400 in Beton			

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# Use of prefabricated channels with precast concrete channel body

**Petrol stations**



**Open-air car parks and entrances**



**Logistics centres**



**Underground, multi-storey car parks**



**Roads and motorways**



**Seaports and airports**



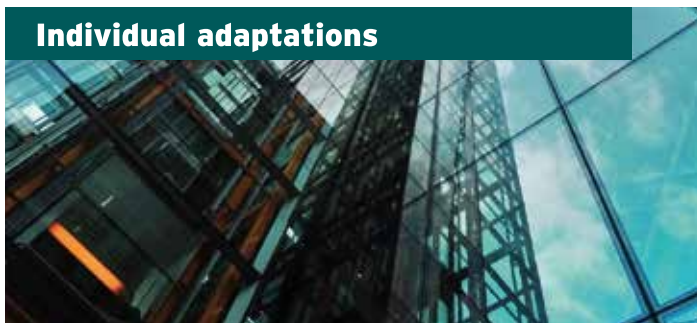
**Military facilities**



**Railway crossings**



**Individual adaptations**



# Prefabricated channels as a repair system - HAURATON Service

Ready-made prefabricated drainage channels allow quick installation. Therefore, they are dedicated to replacing damaged drainage systems on existing projects.

## Where a rapid drainage replacement is needed?

- petrol stations
- logistics centres
- the only entrance to the site

		
<b>Fast</b>	<b>Efficiently</b>	<b>Safely</b>
Replacement of damaged drains with new ones even within a few hours. Quick return to full functionality of the facility.	Our many years of experience enable us to select the highest quality, effective drainage systems for every type of facility.	We guarantee the long-term reliability of linear drainage systems, as well as safety during replacement and in subsequent use. Our guarantee is valid for up to 5 years of drainage for any type of building.

## Why replace failing drainage systems?



### Safety for people and vehicles

You will ensure the safe use of your facility by people and prevent damage to vehicles (e.g. at a busy site entrance, faulty drainage can lead to mechanical damage).



### Environmental protection

You will stop the uncontrolled release of polluted rainwater into the environment (e.g. petroleum substances at service stations).



### Financial benefits

You will be protected from financial losses associated with taking key crossings or areas out of use during a drainage failure (e.g. entrance to a petrol station, logistics center or ambulance forecourt).

# Review of the efficiency of rainwater management systems

**Date:** \_\_\_\_\_ **Name and address of the facility:** \_\_\_\_\_ **Contact details (person responsible for the technical condition of the facility):** \_\_\_\_\_

## Linear drainage:

**1** Does the site have drainage?  
 YES  NO

**2** Estimated total length of drainage system  
 \_\_\_\_\_

**3** Number of trash boxes:  
 \_\_\_\_\_

**4** Condition of drainage - grates:

- complete	<input type="radio"/> YES	<input type="radio"/> NO	number of grates missing	_____ pcs.
- screwed	<input type="radio"/> YES	<input type="radio"/> NO		
- mechanically damaged	<input type="radio"/> YES	<input type="radio"/> NO	number in pieces (1 pc.=0.5 m)	_____
- are they unobstructed?	<input type="radio"/> YES	<input type="radio"/> NO	number of obstructed grates	_____

**5** Condition of drainage - channels:

- visible cracks in the tangential part with grate	<input type="radio"/> YES	<input type="radio"/> NO	quantity in pcs.	_____
- visible cracks in hydraulic channel	<input type="radio"/> YES	<input type="radio"/> NO	quantity in pcs.	_____
- obstruction of channels	<input type="radio"/> YES	<input type="radio"/> NO	how many metres of obstructed channel	_____
- obstruction of channels	<input type="radio"/> YES	<input type="radio"/> NO	how many metres of obstructed channel	_____

**6** Operation: Service book or date of last cleaning/maintenance  
 \_\_\_\_\_

**7** Conclusions/Recommendations  
 damaged channels \_\_\_\_\_ pcs.

**Dedicated product from the HAURATON offer:**

MONOTEC+	quantity _____ m, number of draining pits: _____ pcs.
FASERFIX BIG BL	quantity _____ m, number of draining pits: _____ pcs.
FASERFIX KS+	quantity _____ m, number of draining pits: _____ pcs.
TRAFFIC GUGIBLOC+	quantity _____ m, number of draining pits: _____ pcs.

**8** Person responsible for the review on behalf of HAURATON:  
 \_\_\_\_\_

**Name:** \_\_\_\_\_ **Telephone no:** \_\_\_\_\_ **E-mail address:** \_\_\_\_\_



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HAURATON Poland reserves the right to make changes due to technical progress.

**Edition 03-03.23P**