hauraton

FASERFIX KS+

Ready-to-use drainage system with
pre-cast reinforced concrete channel body



FASERFIX KS+

Drainage system
with pre-cast reinforced
concrete channel body



FASERFIX KS+ system is a linear drainage, that doesn't require formwork, reinforcement and in-situ concrete work. This solution saves money and time. High quality concrete C50/60 guarantees stability and durability.

FASERFIX KS+ means:

- Possible adjustment of pre-cast reinforced concrete channel body's parameters depending of investements requirements
- Stable and durable material
- Numerous grating options
- Time and money saving
- Possible colouring of pre-cast reinforced concrete channel body
- Possible surface texturing of the pre-cast reinforced concrete channel body



Grating protections



Side-lock boltless locking system

SIDE LOCK is a unique locking system, that allows replacement and insert of the grating without any special tool. Simply put the grating on the channel and press with your foot. When you hear the „click" sound it means that the grating is safely installed and can be overdriven straight away. For maintance you can deinstall the grating by use of a simple tool e.g. screwdriver. SIDE-LOCK saves 90% of time of fixing the grating comparing to other locking systems. SIDE-LOCK was constructed by HAURATON and is a patent-protected solution.

Vandalproof locking handle

In addition to the SIDE-LOCK locking, the FASERFIX KS system is equipped with additional protection in the form of anti-vandal interlock. For each half meter of grating, there is 1 blockade that prevents the grid from being removed or broken. This type of protection is used in places where there is a high risk of theft of grates or on sports facilities such as stadiums.



KTL coating

The KTL coating meets the highest quality requirements when it comes to corrosion protection. It is a uniform, thin coating that penetrates very deeply into the structure of cast iron. The coat is exceptionally resistant to motor fuels, acids and alkalis. It does not chip. Gratings covered with KTL coating are especially recommended in areas with an increased risk of aggressive substances presence, as well as in prestigious places with high aesthetic requirements, e. g. at glass elevations of buildings, where there is no natural abrasion of the iron oxide coating during the normal operation of traditional cast iron grates.



Special solutions

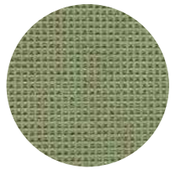
There are several special solutions available for the FASERFIX®KS+ system, such as colouring or surface texturing of the pre-cast reinforced concrete channel body or manufacturing the pre-cast reinforced concrete channel body with special parameters in order to meet investments requirements.

Choosen options for surface texturing and colour of pre-cast reinforced concrete channel body

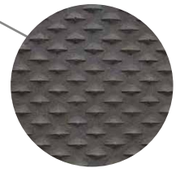




wooden structure in sand colour



grid in fern colour



corrugated texture in anthracite colour



fringes in anthracite colour

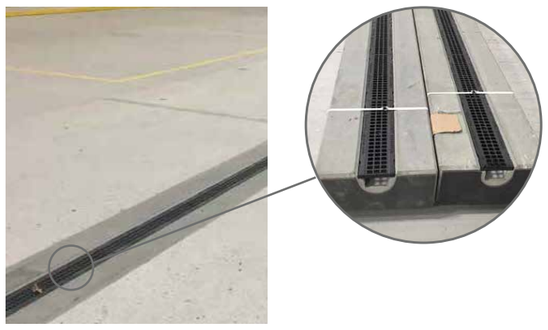
Lowered pre-cast reinforced concrete channel body

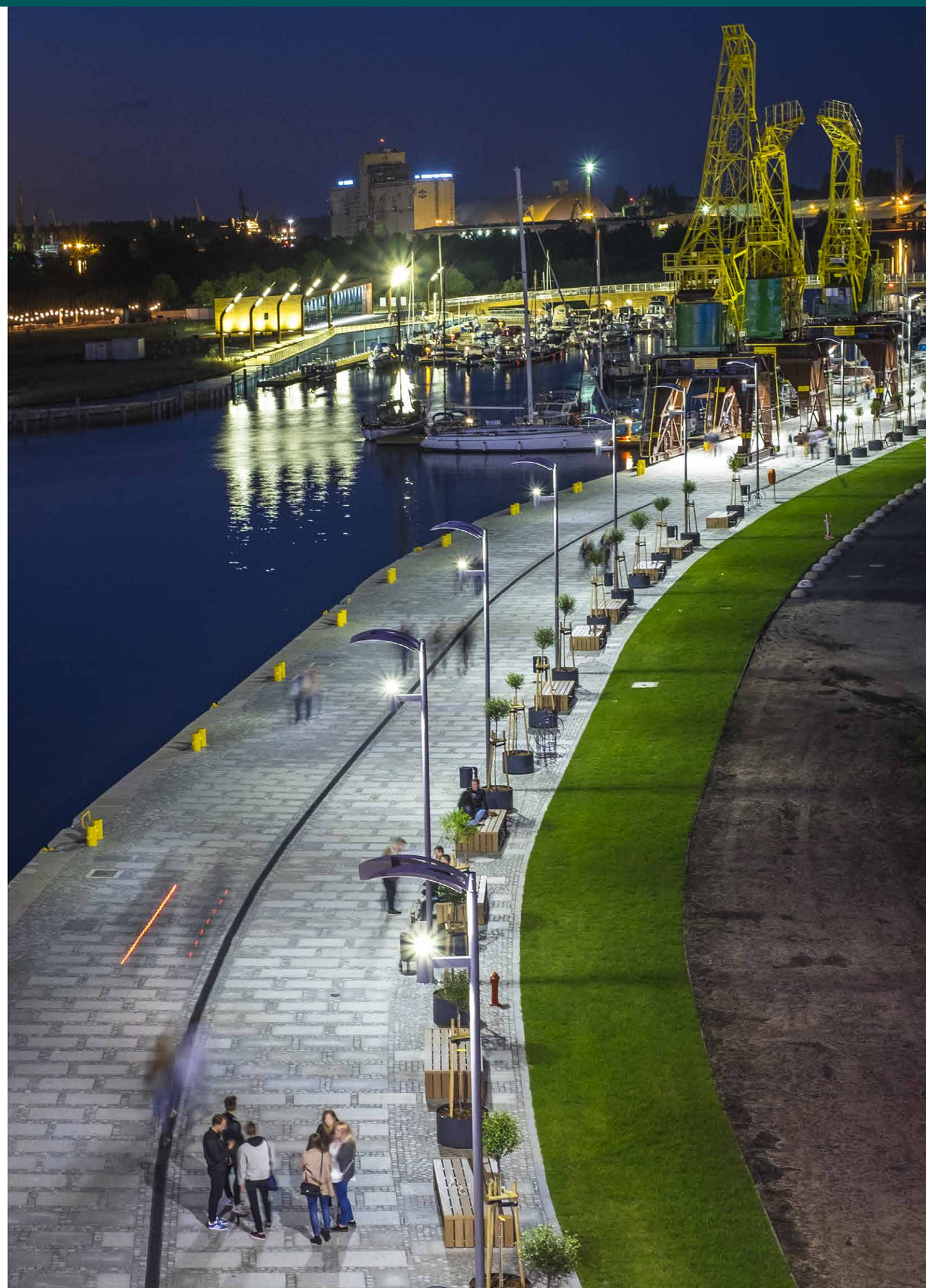
gives additional esthetique effect e.g. together with a cobblestone



Shallow channels with pre-cast reinforced concrete channel body

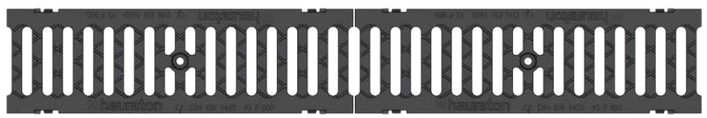
for installation in e.g. underground park entries



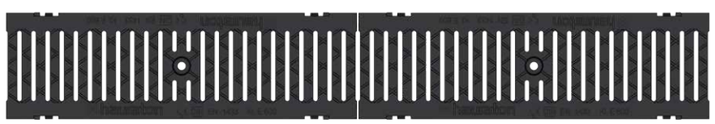


Numerous grating options

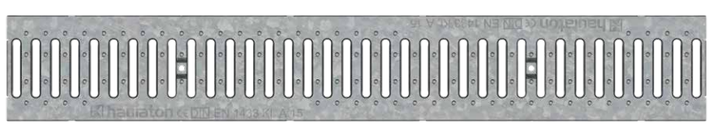
Ductile gratings



14 mm slot
iron

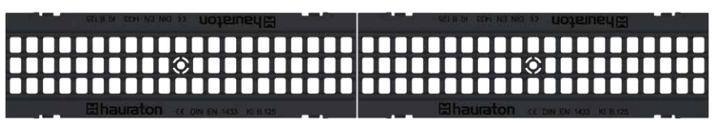


6 mm slot
iron



10 mm slot
galvanised

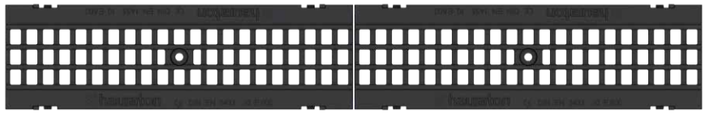
Mesh grating



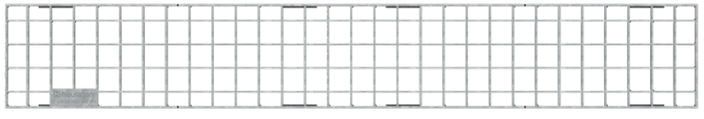
polyamide



galvanised



iron



MW 30/30
galvanised

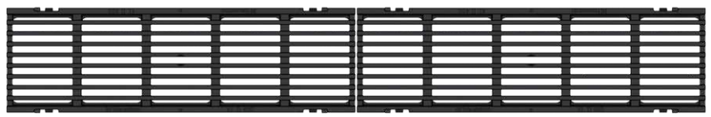


MW 11/30
galvanised

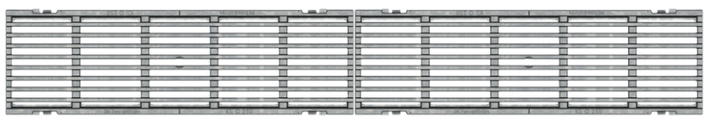


MW 30/10
galvanised

Longitudinal slot grating



SA 9
KTL coated



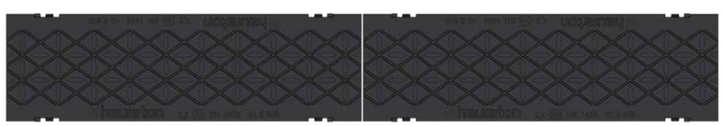
SA 9
galvanised

Perforated grating



⌀ 6
stainless steel

Solid ductile covers



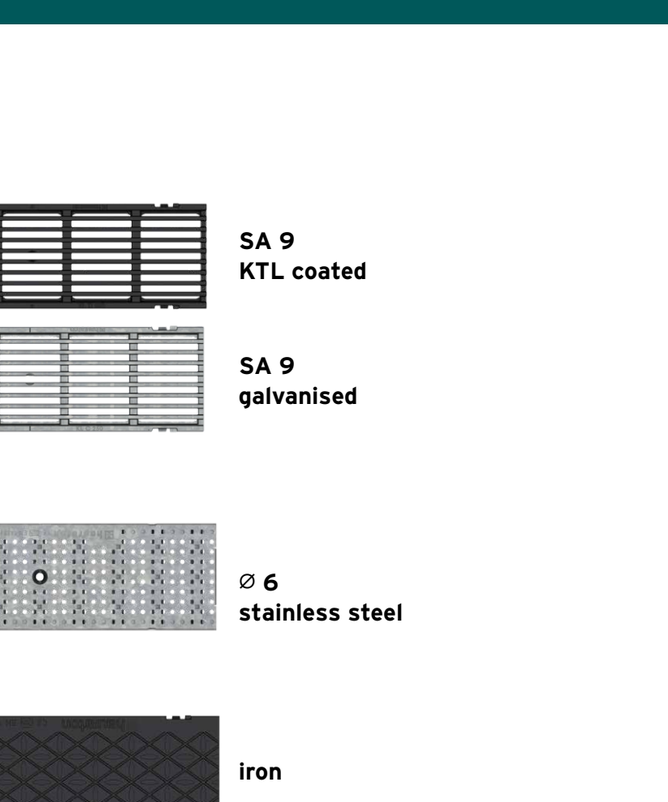
iron

Coloured fibretec gratings

Inspiration for the new gratings was the proven black FIBRETEC which has received various awards since its introduction in 2010. One of these awards is the International Design Award Baden-Württemberg Focus Open.

The production of the coloured FIBRETEC gratings in Fern, Sand and Stone colours is done with coloured granulate. The result are uniformly coloured gratings which are particularly weather and UV-resistant.

Gratings were tested and approved in the laboratory according to DIN EN ISO 4892-2 and DIN 19580. Gratings were exposed to artificial weathering for a total of 1,600 hours in the form of xenon arc radiation and irrigation.
The subsequent mechanical tests were very successful - optical changes were hardly measurable. However, slight long-term colour changes in the material cannot be ruled out.



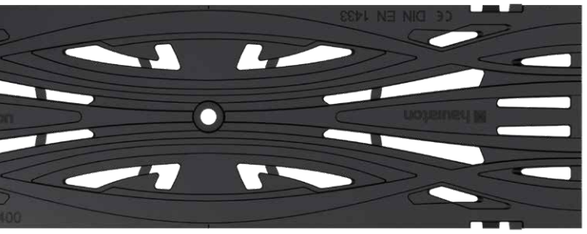
Decorative grating METROPOLIS

The METROPOLIS grating combines the functionality of a drainage system with distinctive design inspired by Art Nouveau and Art Deco. Its flowing, organic lines give it a decorative character, making the drainage system an integral part of the architectural design.

METROPOLIS can be used in contemporary projects as well as in representative urban spaces and surroundings with a historic architectural character. The grating is made of spheroidal graphite cast iron and is designed for use with HAURATON drainage systems. Its technical parameters allow the decorative design to be combined with applications up to load class D 400.

Technical data

Systems:
FASERFIX KS, KS+, RECYFIX PRO
Material:
Ductile iron GGG50
Coating:
KTL
Nominal width:
NW 100 / NW 200
Load class:
up to D 400
Fixing:
SIDE-LOCK
Additional locking:
optional screw locking



History of the METROPOLIS grating

1927

Fritz Lang's film Metropolis, from the very moment of its release, had an impact on many generations. With its futuristic vision of a metropolis, the film created a powerful visual motif that continues to inspire artists to this day.

2015

The concept for the METROPOLIS grating was developed by Jean-Christophe Turgné, HAURATON's technical consultant in France. Its aim was to create a functional drainage component that would also introduce new aesthetic possibilities and greater freedom of expression through its futuristic, decorative design.

2016

The METROPOLIS grating was developed and produced, opening up new possibilities for architects and designers in creating distinctive projects thanks to its rich decorative pattern.



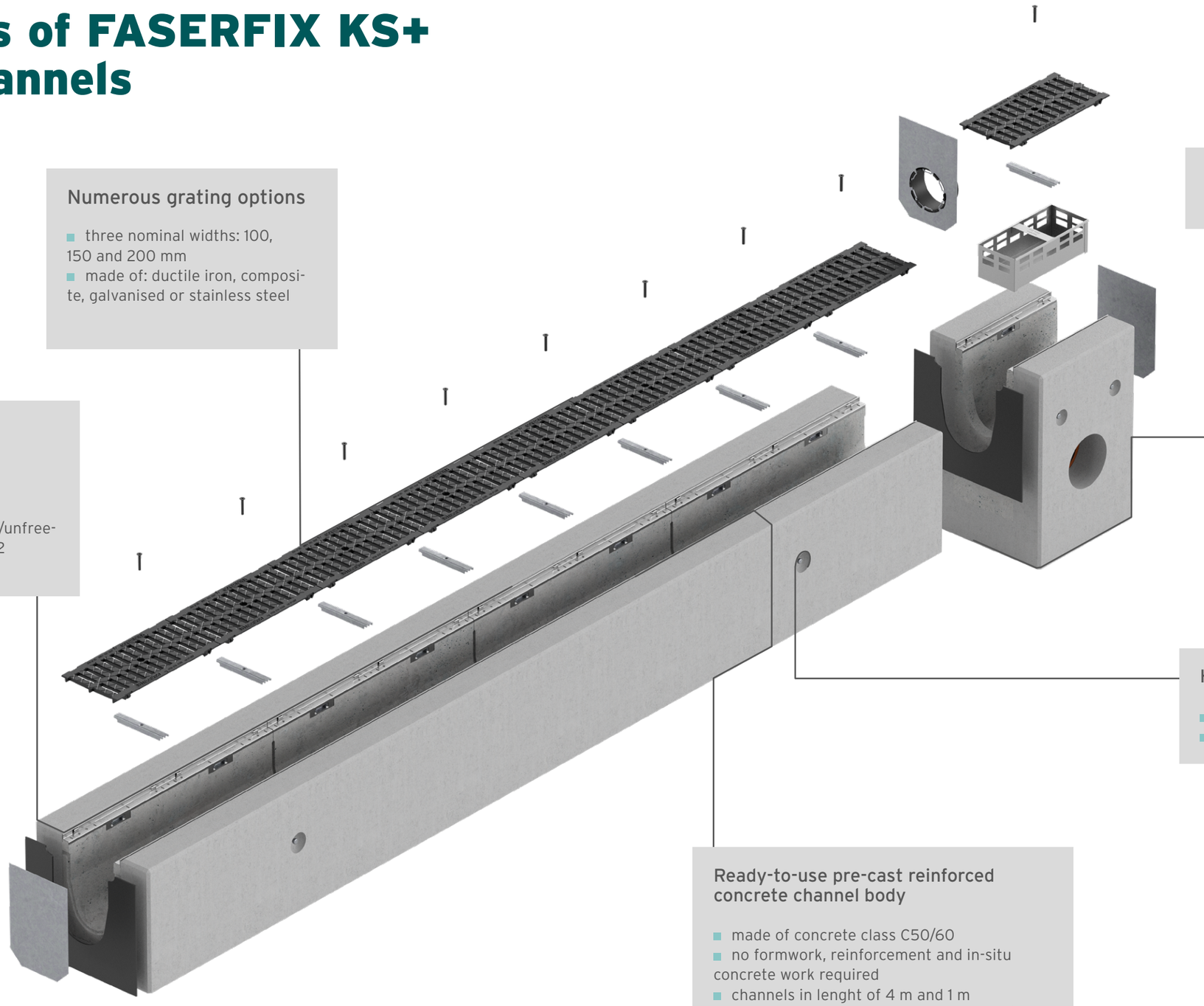
The benefits of FASERFIX KS+ pre-cast channels

Numerous grating options

- three nominal widths: 100, 150 and 200 mm
- made of: ductile iron, composite, galvanised or stainless steel

High quality and stability of the material

- loading class E 600
- average absorbability- 4,8%
- avarage weight loss by freezing/unfreezing with a use of salt - 0,02 kg/m2
- exposure class- XF4, XA3



Sump unit with sewer connection

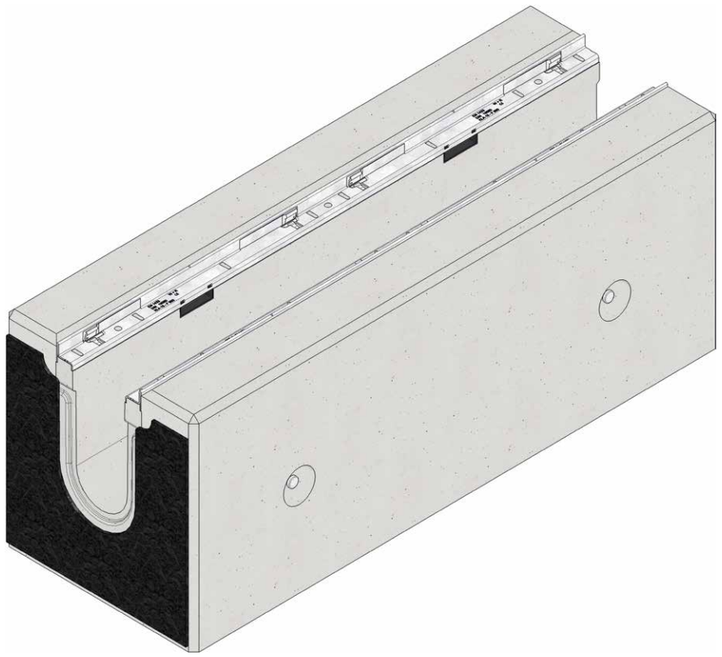
Handling elements

- pherical head anchor 1,3 t
- universal head-link

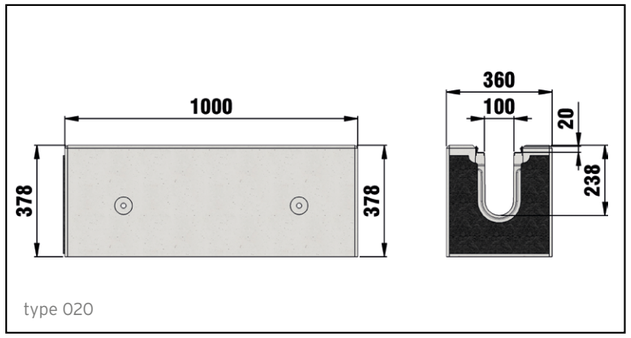
Ready-to-use pre-cast reinforced concrete channel body

- made of concrete class C50/60
- no formwork, reinforcement and in-situ concrete work required
- channels in lenght of 4 m and 1 m
- meets the requirements EN 1433:2005/A1:2007*

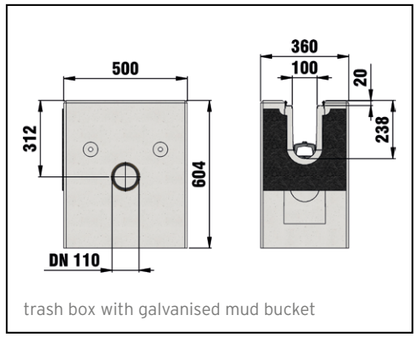
* tests performed by ICiMB in Warsaw; nr.: AB 115



type 020, 1 m



type 020



trash box with galvanised mud bucket

FASERFIX KS+ 100

Channels

FASERFIX KS+ 100, channels, **up to E 600**

	Lenght	Width mm	Height. mm	Drainage cross-sect. cm2	Weight kg	Item./ pal.	Item No.	Item No. galvanised
type 020	mm	360	378	cross-sect.	290,00	-	33300	33400
type 020	Width	360	378	cm2	1160,00	-	33301	33401
type 100 F	mm	510	230	54	269,00	-	33302	33402
type 100 F	Height	510	230	54	1076,00	-	33303	33403

Sealing profiles attached to each length on both sides.
Channels with pre-cast concrete channel body are equiped 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, in anthracite and other colors, as well as with different pre-cast concrete channel
body surface texturing.
Shallow channels available with protection tubes that enable dowelling with concrete surface.



Type 020
4,0 m



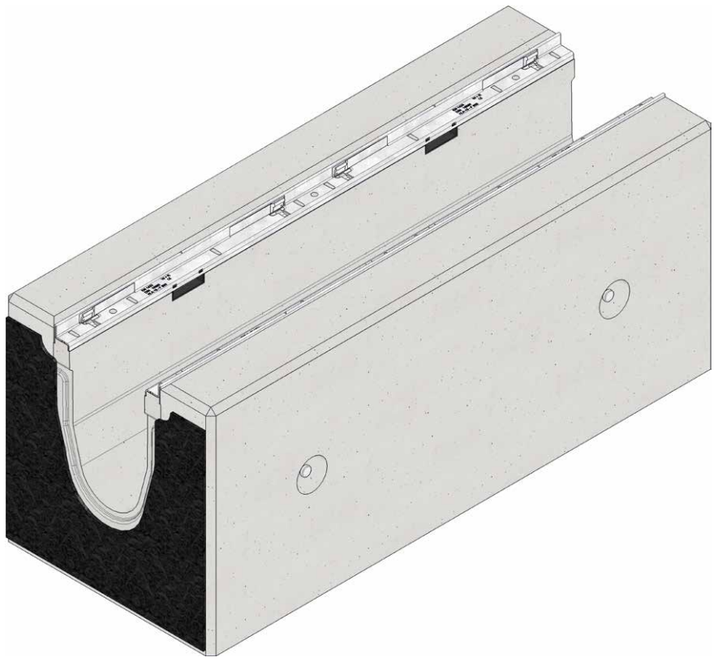
Type 20
1 m



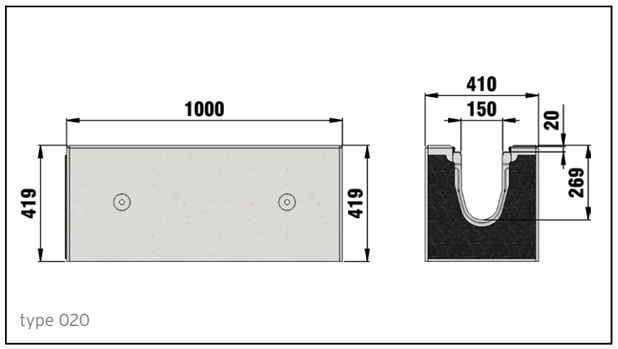
Type 100 F
4,0 m



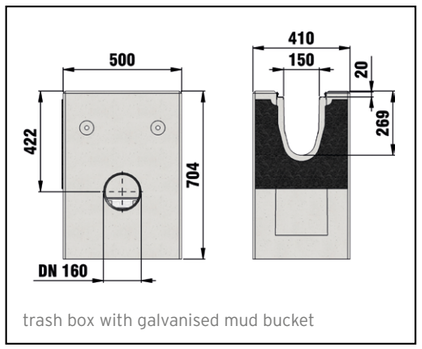
Type 100F
1,0 m



type 020, 1 m



type 020



trash box with galvanised mud bucket

FASERFIX KS+ 150

Channels

FASERFIX KS+ 150, channels, **up to E 600**

	Lenght mm	Width mm	He-ight. mm	Drainage cross-sect. cm2	Weight kg	Item./ pal.	Item No.	Item No. galvanised
type 020	1000	410	419	312	340,00	-	33310	33410
type 020	4000	410	419	312	1360,00	-	33311	33411
type 110 F	1000	510	230	74	262,00	-	33312	33412
type 110 F	4000	510	230	71	1048,00	-	33313	33413

Sealing profiles attached to each length on both sides.
Channels with pre-cast concrete channel body are equiped 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, in anthracite and other colors, as we

Type 020
4,0 m



Type 20
1 m



Type 110 F
4,0 m

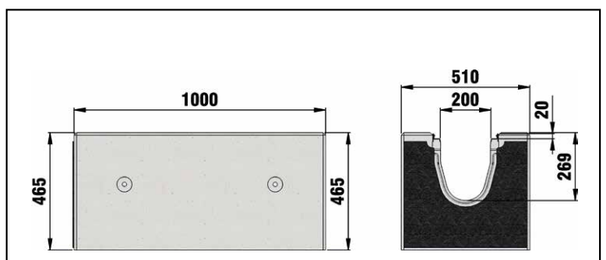


Type 110F
1,0 m

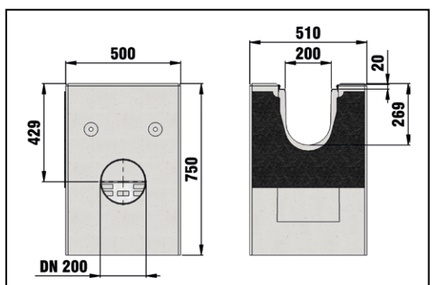




type 020, 1 m



type 010



trash box with galvanised mud bucket

FASERFIX KS+ 200

Channels

FASERFIX KS+ 200, channels, **up to E 600**

	Lenght mm	Width mm	He-ight. mm	Drainage cross-sect. cm2	Weight kg	Item./ pal.	Item No.	Item No. galvanised
type 010	1000	510	465	409	472,50	-	33319	33419
type 010	4000	510	465	409	1890,00	-	33320	33420
type 020	1000	510	465	509	449,00	-	33321	33421
type 020	4000	510	465	509	1797,00	-	33322	33422
type 110 F	1000	510	230	97	252,00	-	33323	33423
type 110 F	4000	510	230	97	1008,00	-	33324	33424

Sealing profiles attached to each length on both sides.
Channels with pre-cast reinforced concrete channel body are equiped 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, in anthracite and other colors, as well as with different pre-cast reinforced concrete channel body surface texturing.
Shallow channels available with protection tubes that enable dowelling with concrete surface.



Type 020
4,0 m



Type 20
1 m



Type 110 F
4,0 m



Type 110F
1,0 m

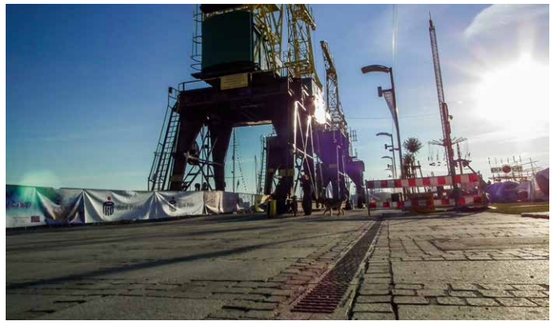
FASERFIX KS+

Reference objects



Old quay Szczecin

The general renovation of the Old Quay on the Łasztownia in Szczecin included a fragment from the Castle Route towards the Old Slaughterhouse. The 650 meter long wharf section has turned into a 12-meter boulevard. The city has gained a natural extension of the Gdynia Boulevard reconstructed several years ago. Thanks to this investment, the surroundings of Szczecin's historic harbor cranes became more beautiful.





Visual aspect of the quay

In order to preserve the aesthetic image of the renovated boulevard, it was necessary to use drainage that would not only be functional, but also fit into the character of this place. For the needs of this investment HAURATON made a special version of concrete channels with monolithic pre-cast reinforced concrete lowered channel body - FASERFIX®KS +.
This type of solution made it possible to arrange the paving stones up to the channels line itself. The overall picture and aesthetics of the wharf have been preserved.

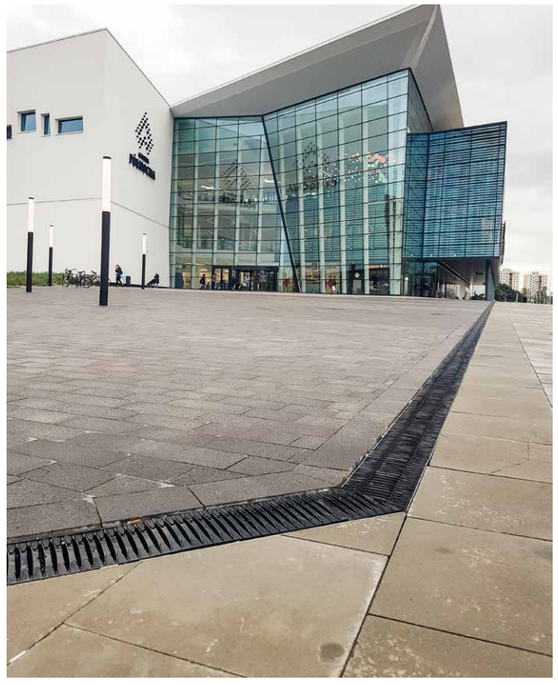


Galeria północna Warszaw

Completed in 2017, Galeria Północna is a modern shopping center in Warsaw. A rich commercial offer is combined here with relaxation in the city space. Elements such as the roof garden, open air gym and skate park, children's playgrounds or squares with fountains and elements of small architecture perfectly fit the building into the green nature of the northern part of Warsaw.

FASERFIX KS+ concrete channels

Galeria Północna is LEED-certified (Leadership in Energy & Environmental Design).
For this project, HAURATON supplied FASERFIX KS+ channels with a pre-cast reinforced concrete channel body. FASERFIX concrete channels are fully recyclable at the end of their service life. The solution enabled quick installation and provided a stable drainage structure.





HAURATON Polska Sp. z o. o.
ul. Ostrowska 398
61-312 Poznan
Poland
Phone: +48 601 704 353
biuro@hauraton.com
www.hauraton.com

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