hauraton
IT'S RUNNING WELL

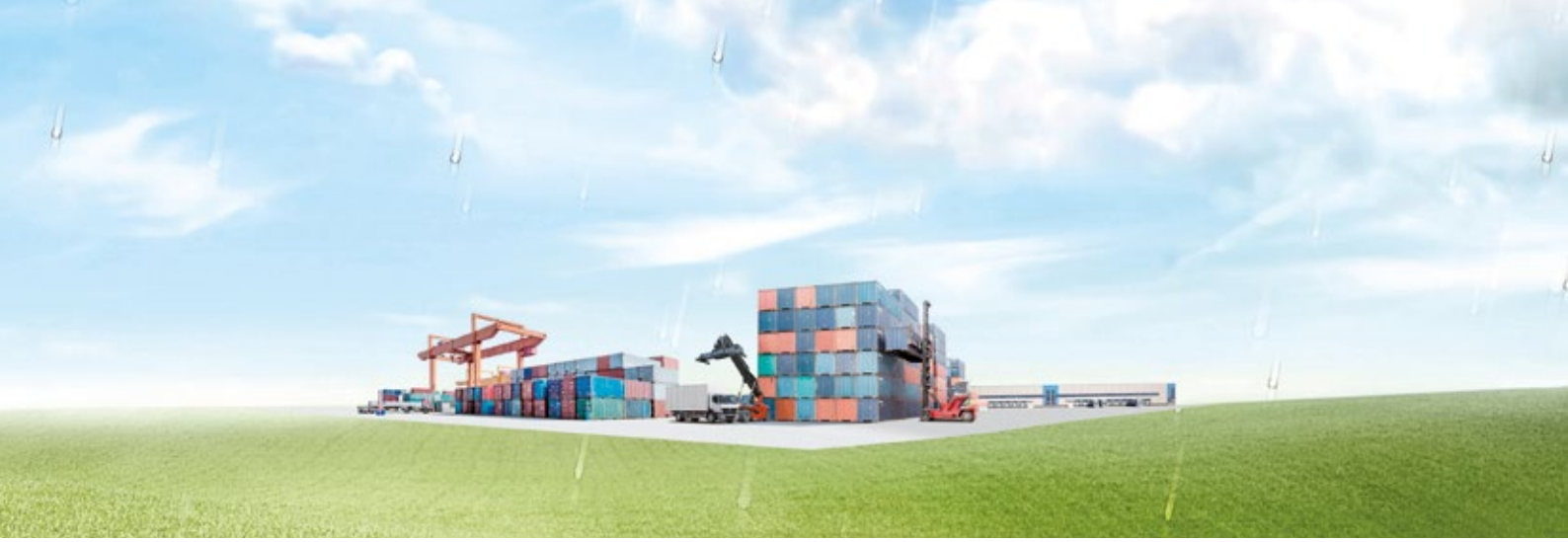
CIVILS

Surface water drainage systems for civil projects

Version 1.8.1

Our benefit with **HAURATON**:

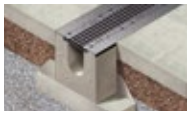
„The selection of a surface drainage system is an important consideration on most infrastructure projects. Here you can count 100 % on several decades of **HAURATON** experience in manufacturing reliable and durable systems.“



Customer benefits
How you profit from HAURATON. 4

FASERFIX SUPER
Drainage channels for extreme loads and high dynamic forces. 10

FASERFIX KS
Stable and efficient drainage channels for commercial and public sectors. 56



FASERFIX BIG SLG
Linear drainage with ductile iron channel edge plates for highest wear resistance. 110

FASERFIX BIG BLS NEW
Drainage channels as prefabricated reinforced concrete elements. 136

RECYFIX PLUS X
Drainage channels with a protective edge for areas with higher traffic flows. 160

RECYFIX NC
Highly stable and lightweight - linear drainage made of PP for civils engineering. 178

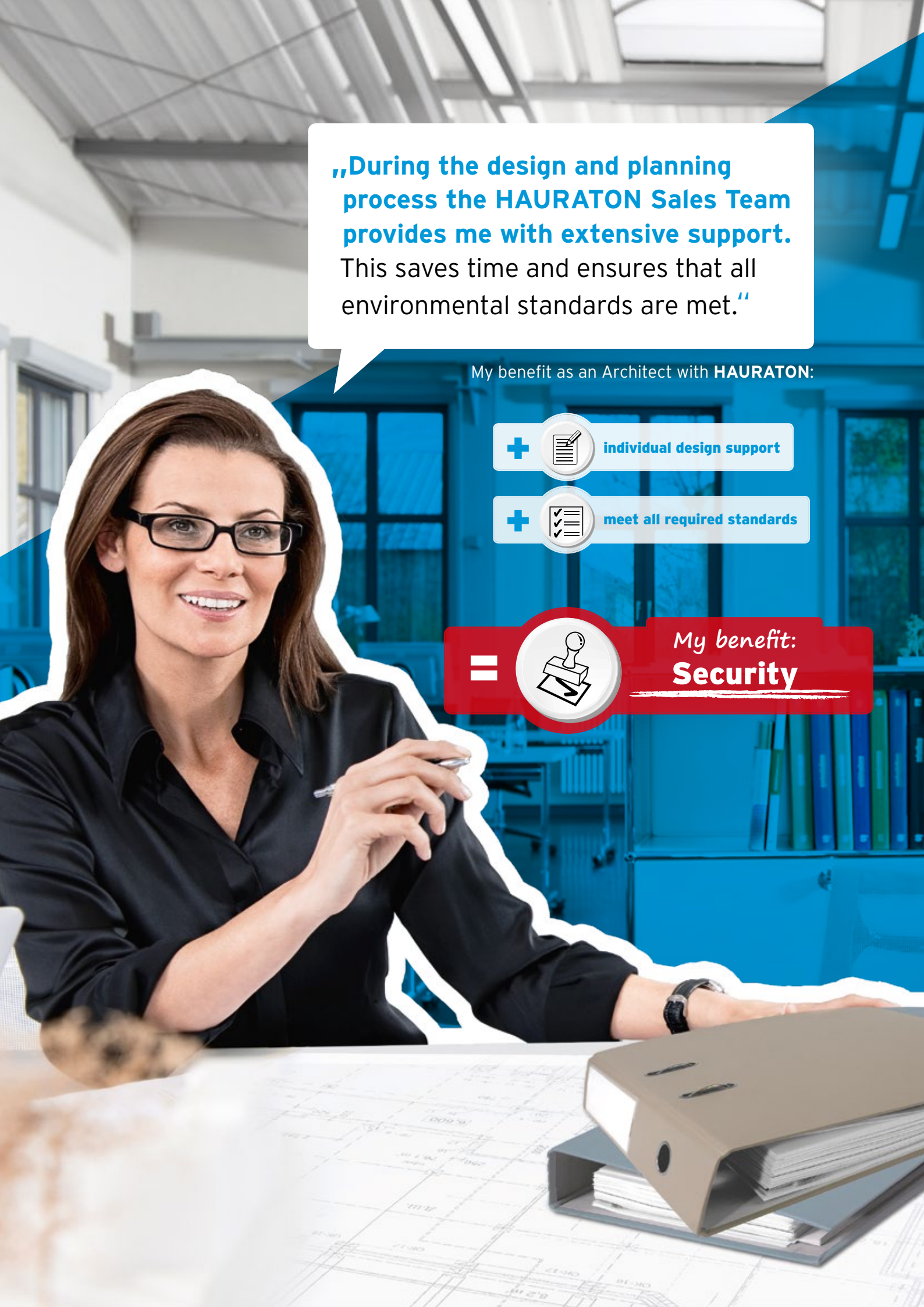
RECYFIX MONOTEC
Drainage system for traffic, parking and commercial areas. 206

RECYFIX HICAP F
High capacity drainage system for the highest load category. 226

FASERFIX POINT KS
Durable point drainage for public and commercial areas. 266

FASERFIX TRAFFIC GUGIBLOC
RECYFIX TRAFFIC GUGIBLOC
Drainage system for extreme conditions with high capacity. 274

SERVICE CHANNEL
Accessible, floor-mounted system for temporary or permanent organisation and management of supply and information cables. 290

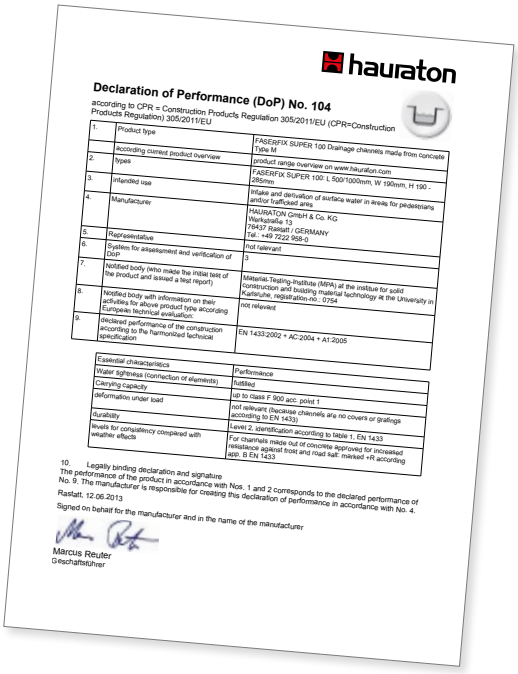

„During the design and planning process the HAURATON Sales Team provides me with extensive support. This saves time and ensures that all environmental standards are met.“
My benefit as an Architect with **HAURATON**:
individual design support
meet all required standards
My benefit:
Security

Security in planning

HAURATON provides architects with the greatest possible planning security. Our products and processes are continually monitored and are subject to strict quality requirements.

Standards, approvals and warranty

- Channels certified to DIN EN 1433
- Test certificates from internationally recognised institutions
- CE-marking
- Quality certification in accordance to DIN EN ISO 9001:2008



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Declaration of Performance (DoP) No. 104

according to CPR = Construction Products Regulation 305/2011/EU (CPR=Construction Products Regulation) 305/2011/EU

1.	Product type	FASERFIX SUPER 100 Drainage channels made from concrete Type M
2.	according claimed product overview	product range overview on www.hauraton.com
3.	types intended use	FASERFIX SUPER 100: L 500/1000mm, W 190mm, H 190 - 285mm intake and derivation of surface water in areas for pedestrians and/or trafficked area
4.	Manufacturer	HAURATON GmbH & Co. KG Werkstraße 13 76437 Rastatt / GERMANY Tel.: +49 7222 958-0
5.	Representative	not relevant
6.	System for assessment and verification of DoP	3
7.	Notified body (who make the initial test of the product and issued a test report)	Material-Testing-Institute (MPA) at the institute for solid construction and building material technology at the University in Karlsruhe, registration-no.: 0754
8.	Notified body with information on their activities for above product type according European technical evaluation	not relevant
9.	declared performance of the construction according to the harmonized technical specification	EN 1433:2002 + AC:2004 + A1:2005

Essential characteristics	Performance
Water tightness (connection of elements)	fulfilled
Carrying capacity	up to class F 900 acc. point 1
deformation under load	not relevant (facelose channels are no covers or gratings according to EN 1433)
durability	Level 2 stratification according to table 1, EN 1433
levels for consistency conspired with weather effects	For channels made out of concrete approved for increased resistance against frost and mud salt: marked +R according appl. B EN 1433

10. Legally binding declaration and signature
The performance of the product in accordance with Nos. 1 and 2 corresponds to the declared performance of No. 9. The manufacturer is responsible for creating this declaration of performance in accordance with No. 4.

Rastatt, 12.06.2013

Signed on behalf for the manufacturer and in the name of the manufacturer

Marcus Reuter
Geschäftsführer

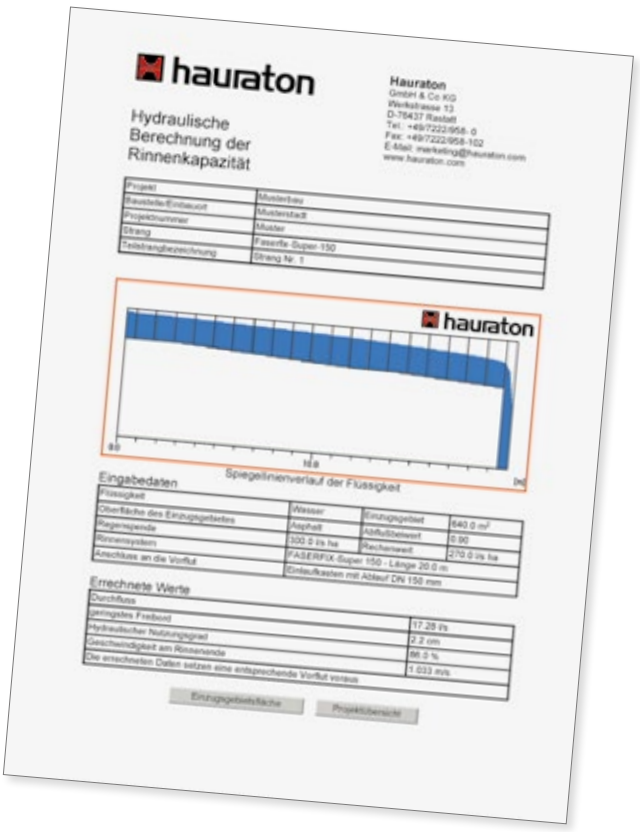
„With a reliable hydraulic calculation supplied by HAURATON in that vital preplanning stage, I can be sure the proposed drainage scheme will work correctly.“
My benefit as a Civil Engineer with **HAURATON**:
stable and durable channels
professional hydraulic calculation
My benefit:
Security

Security in the hydraulic calculations

HAURATON supports Civil Engineers and Planners
by providing layouts and hydraulic calculations for their surface water drainage schemes.

Hydraulic

- hydraulic calculation free of charge
- specially developed calculation programme
  (In cooperation with the University of Prague)



„On any construction site, time is money. In my opinion HAURATON drainage channels are very resistant to on-site damage. In addition, the **HAURATON SIDE-LOCK** boltless locking system usually saves me hours of work installing gratings.“

My benefit as a Contractor with **HAURATON**:

+ tough channels and gratings

+ SIDE-LOCK grating system

= My benefit: **Cost saving**

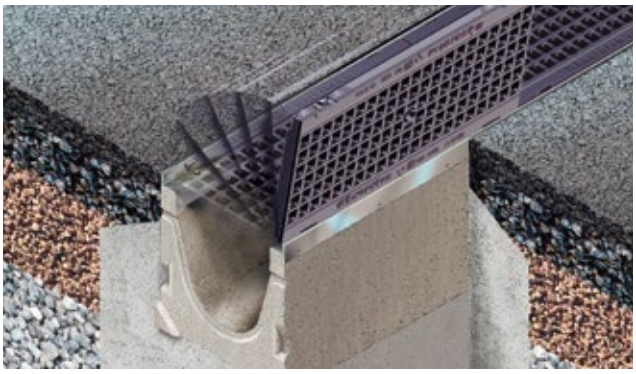
Practical test **SIDE-LOCK** – top efficiency is achieved with the boltless locking system

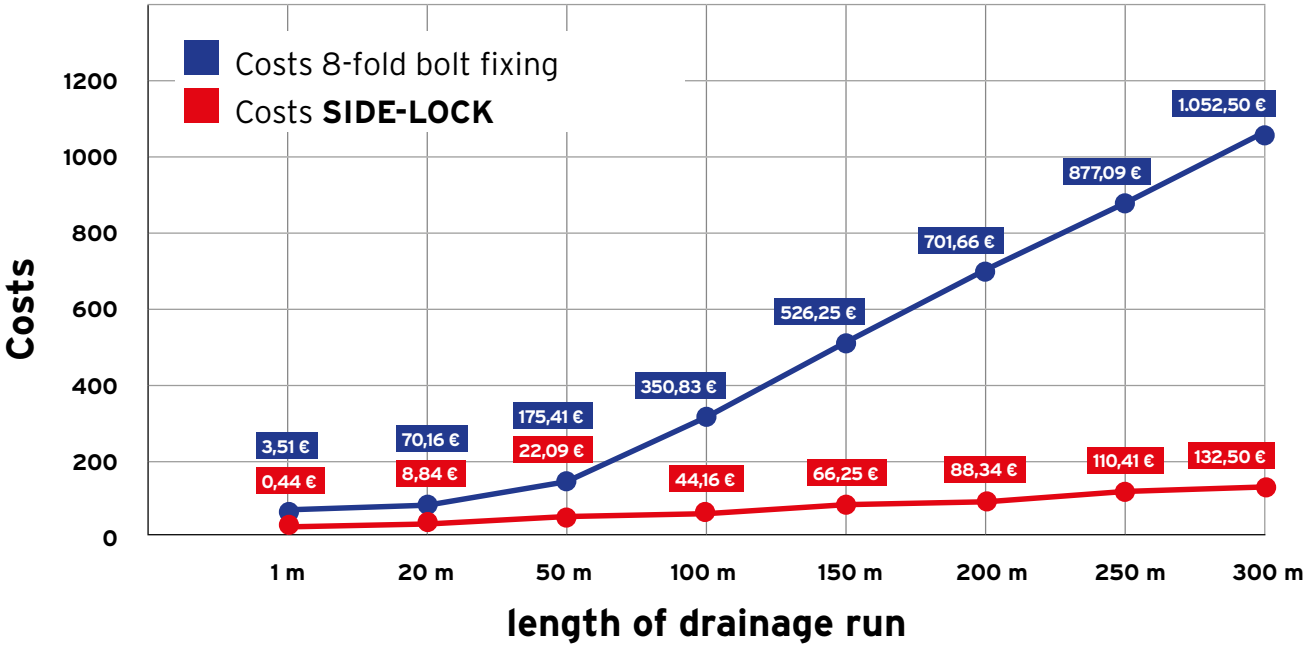
We measured the required time for the installation and replacement of the grating with the boltless locking system **SIDE-LOCK** against a conventional system with 8-bolt fastening per metre.

The results:

- Duration of the process with **SIDE-LOCK**: 30 seconds
- Duration with a 8-fold bolt fixing grating: 4 minutes and 12 seconds
- The result is a time-saving of 3 minutes and 42 seconds per linear metre when using **SIDE-LOCK**.

The diagramm shows this huge difference, which becomes even more obvious when you multiply the time factor with an hourly rate of 40,00 €.





Here you can find the movie **SIDE-LOCK:**

or visit www.hauraton.com

FASERFIX SUPER

Drainage channels for extreme loads and high dynamic forces.

hauraton

Racetrack „Sochi Autodrom“

FASERFIX SUPER

Drainage channels for extreme loads and high dynamic forces.

1 Requirements

Drainage channels in heavy traffic areas must

- withstand to extreme loads and high dynamic forces.
- be particularly stable to ensure a long-term security.
- be resistant to environmental influences. (frost, heat, moisture)

2 Application areas

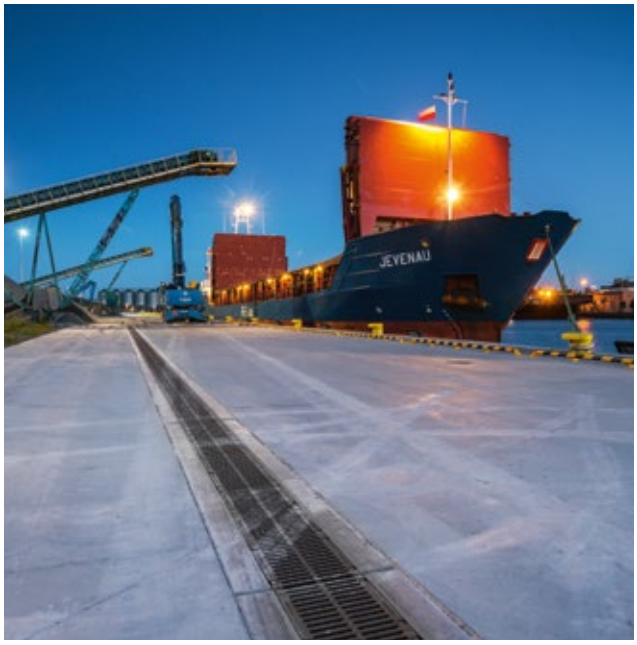
- traffic areas for industry
- container terminals and ports
- roads and tunnels
- petrol stations and service areas
- airports

3 Solutions

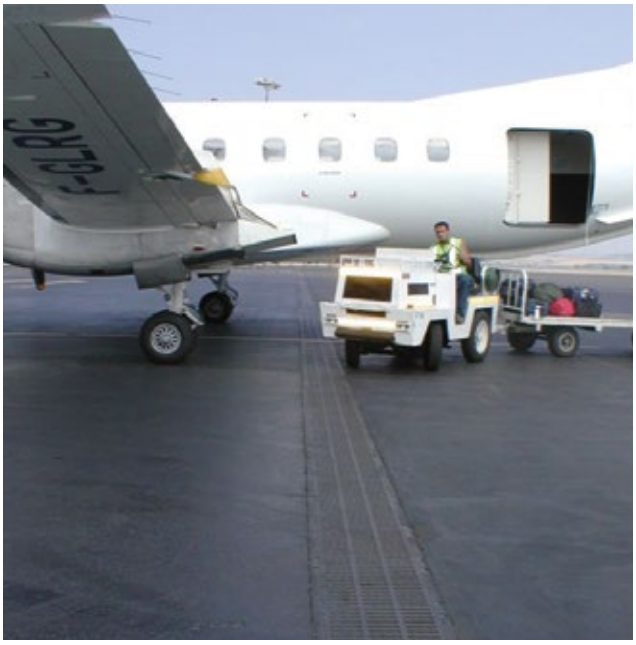
Therefore FASERFIX SUPER channels offer solutions for any type of application in heavy duty traffic areas:

- large channels made from fibre-reinforced concrete
- corrosion-proof galvanised steel angle housing
- gratings up to class F 900 in accordance with DIN EN 1433
- grating securely located in 40 mm deep angle housings
- nominal sizes from 100 to 500 mm each in different heights
- boltless locking system SIDE-LOCK with additional eight bolt fixing per metre is possible
- safety joint for easy sealing

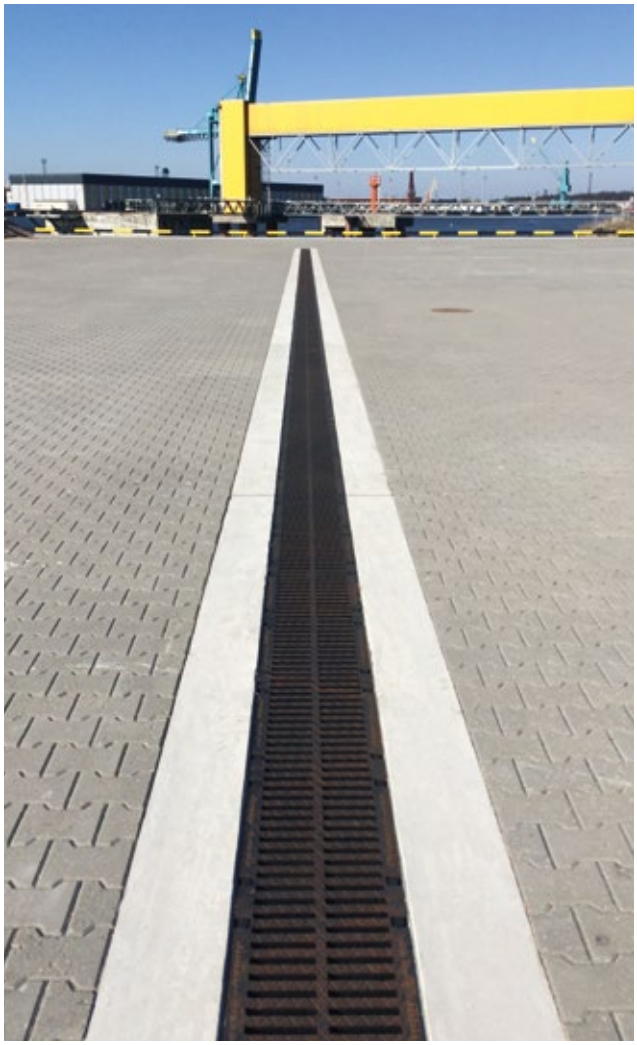
ADAC safe drive centre, Schlüsselfeld, Germany



Port in Gdansk, Poland



Airport Aulnat, France



Container terminal and port, Latvia

Traffic area for industry, Germany

FASERFIX SUPER

Drainage channels for extreme loads and high dynamic forces.

Maximum security through reliable drainage systems for „Sochi Autodrome“ racetrack.

FASERFIX SUPER channels withstand high dynamic forces and extreme conditions as was demonstrated at the „Grand Prix of Russia“ on the racetrack in Sochi. The 4,400 m of built-in FASERFIX channels offer the racers a high level of security during the Grand Prix. The track also runs through the Olympic Park and was designed by German racetrack expert Hermann Tilke. The project management team from HAURATON and Tilke implemented the surface drainage together.

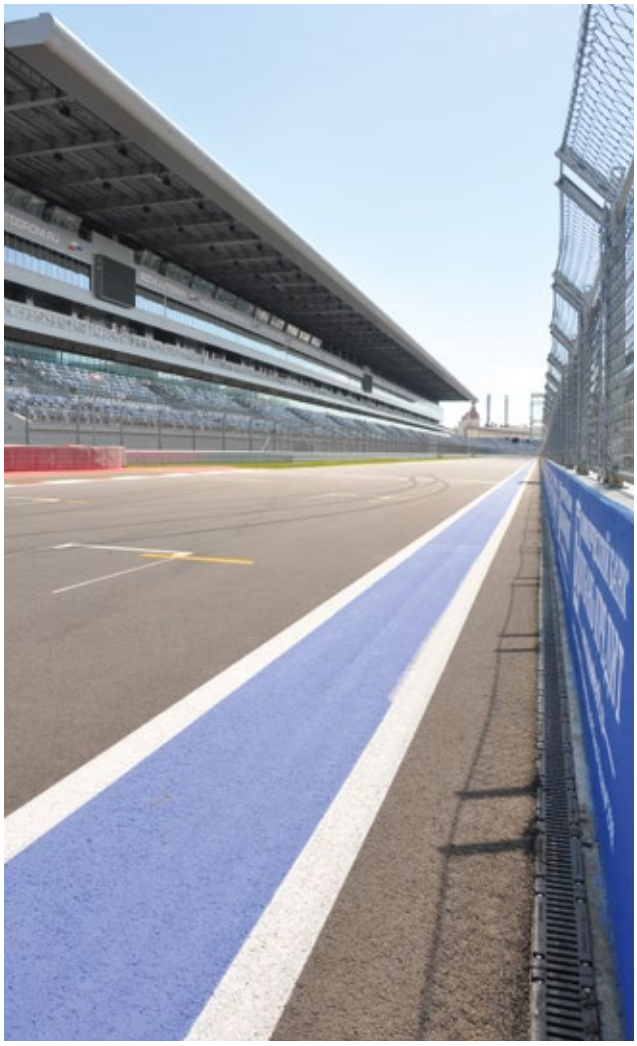
FASERFIX THE ORIGINAL TESTED BY REALITY SINCE 1974

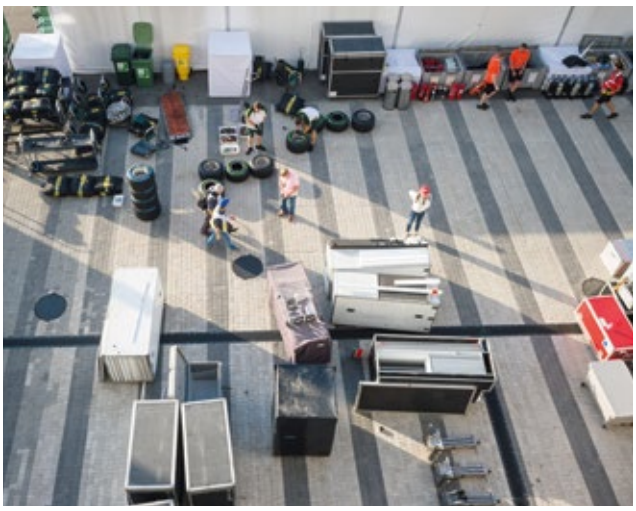
Particularly high demands:

- extreme loads on drainage channels due to suction effects of cars with maximum speeds over 300 km/h
- additional high loads by trucks and forklifts in the paddock, pit-lane and service areas
- exact installation of +/- 2 mm required
- problematic construction traffic resulted in requiring extremely high lateral stability of the channels
- upwardly open T and cross connections, so that the channels in the paddock can additionally be used as a cable channel
- installation of asphalt and paving construction directly to the channel corresponding to class D 400

Drainage channels:

- 2,225 m FASERFIX SUPER channels (in racetrack area, T16-T18), over 2,100 m FASERFIX SUPER 150 and 200 (paddock area) and RECYFIX 150 with slotted cover (racetrack, T16-T18)
- channels were installed with customized special components





YOUR BENEFITS WITH **FASERFIX** SUPER

HIGH PERFORMANCE ANGLE HOUSING AND SIDE-LOCK

- 40 mm x 40 mm angle housing and inlaying grating
- extremely stable connection between steel angle housing and concrete channel body
- 16 fixing points for gratings per metre (incl. 8 times with optional bolting)
- extra protection against lateral movement
- 90 % time savings in fixing the grating with **SIDE-LOCK** (compared to a conventional fixing)
- replace and insert the grating without any special tool (if unbolted), a screwdriver is enough

= QUALITY ASSURED & COST SAVINGS

HIGH-TECH MATERIAL

- „Made in Germany“
- maximum stability through fibre - reinforced concrete (polypropylene fibres) with low weight
- adheres well to foundation concrete (same coefficient with regard to thermal expansion)
- installation without grating possible
- fire resistance class A1 (not flammable) according to DIN 4102

= QUALITY- & PERFORMANCE ASSURED

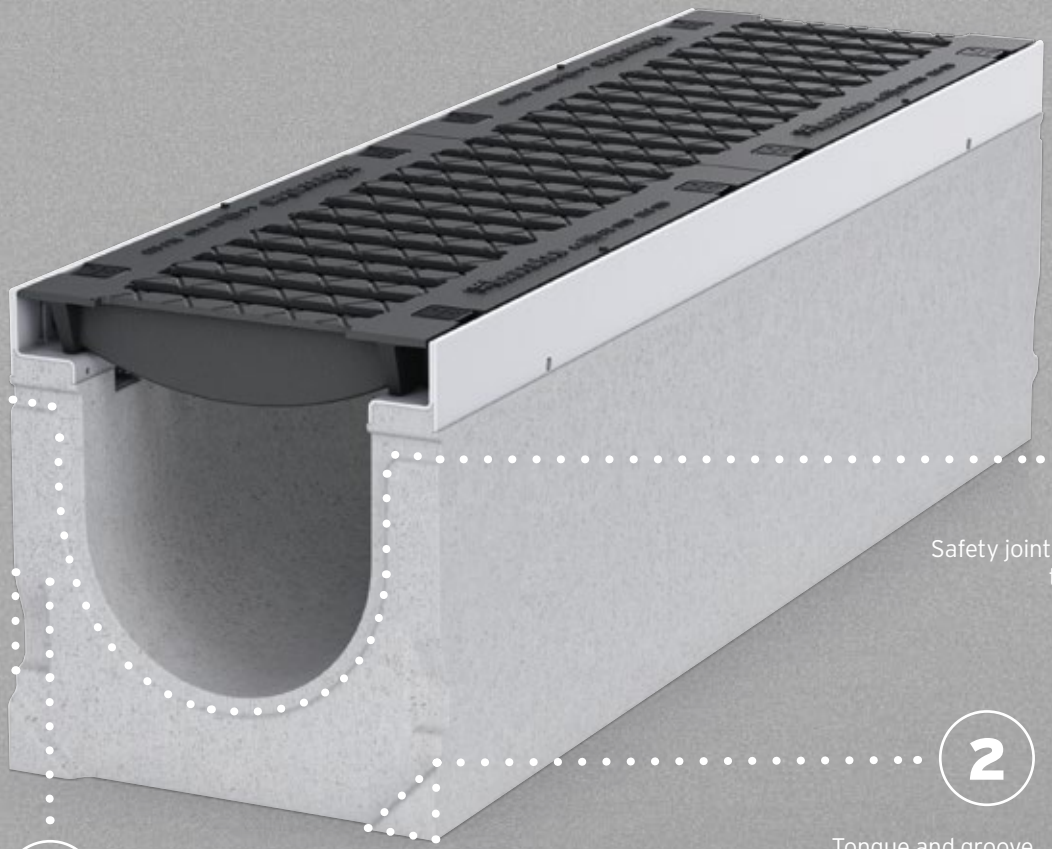
HIGH STABILITY

- maximum lateral stability through extra thick walls compared to many competitors‘ products for additional security in extreme situations
- installation for asphalted surface up to class E 600 without concrete stretcher

= PERFORMANCE ASSURED

IDEAL FOR ...

applications with heavy loads and high dynamic forces up to class F 900, such as traffic areas for industry, roads and petrol stations.



1 Anti floating

2 Tongue and groove connection

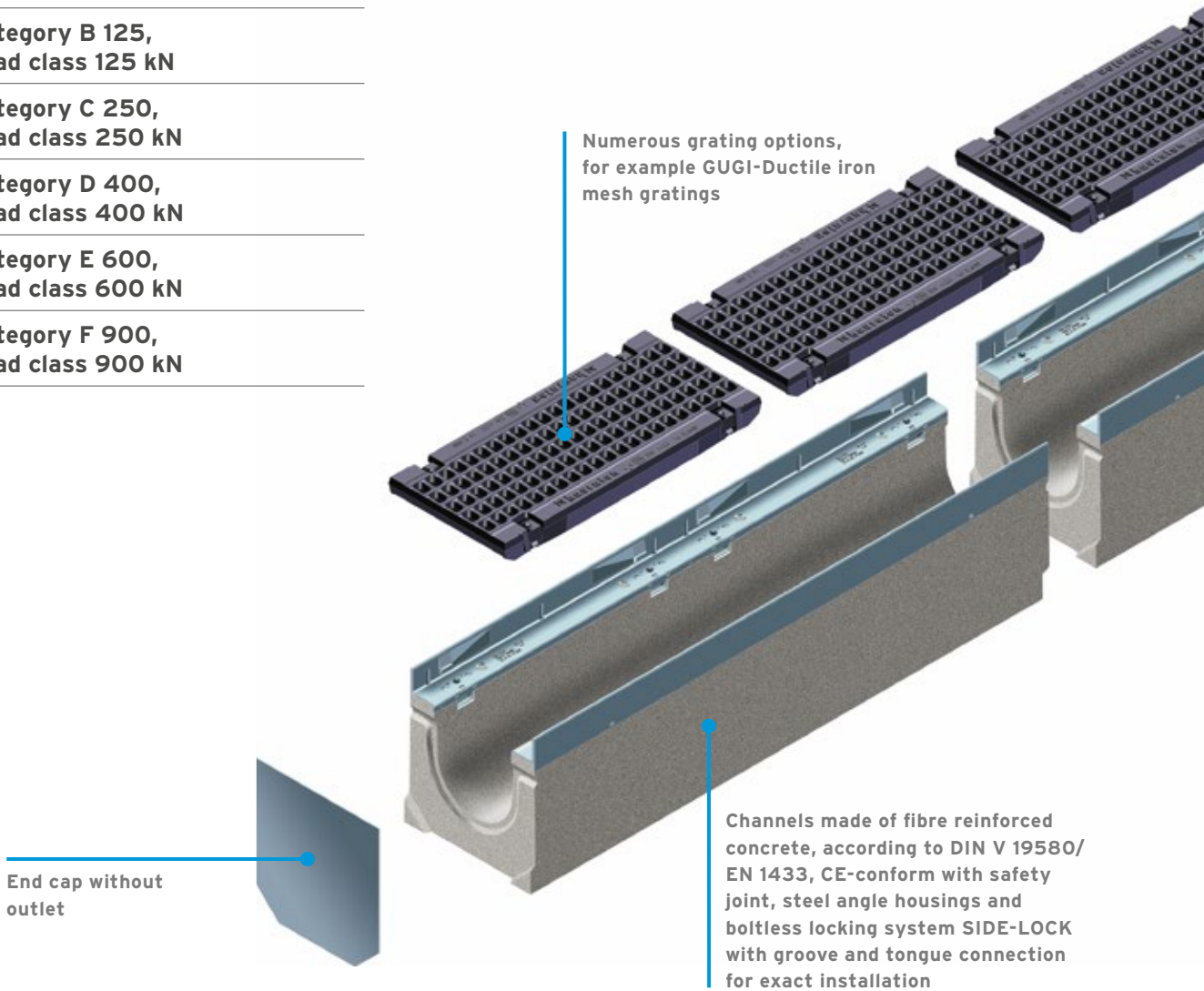
3 Safety joint according to EN 1433

FASERFIX SUPER

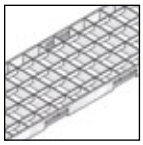
Drainage channels for extreme loads and high dynamic forces.

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

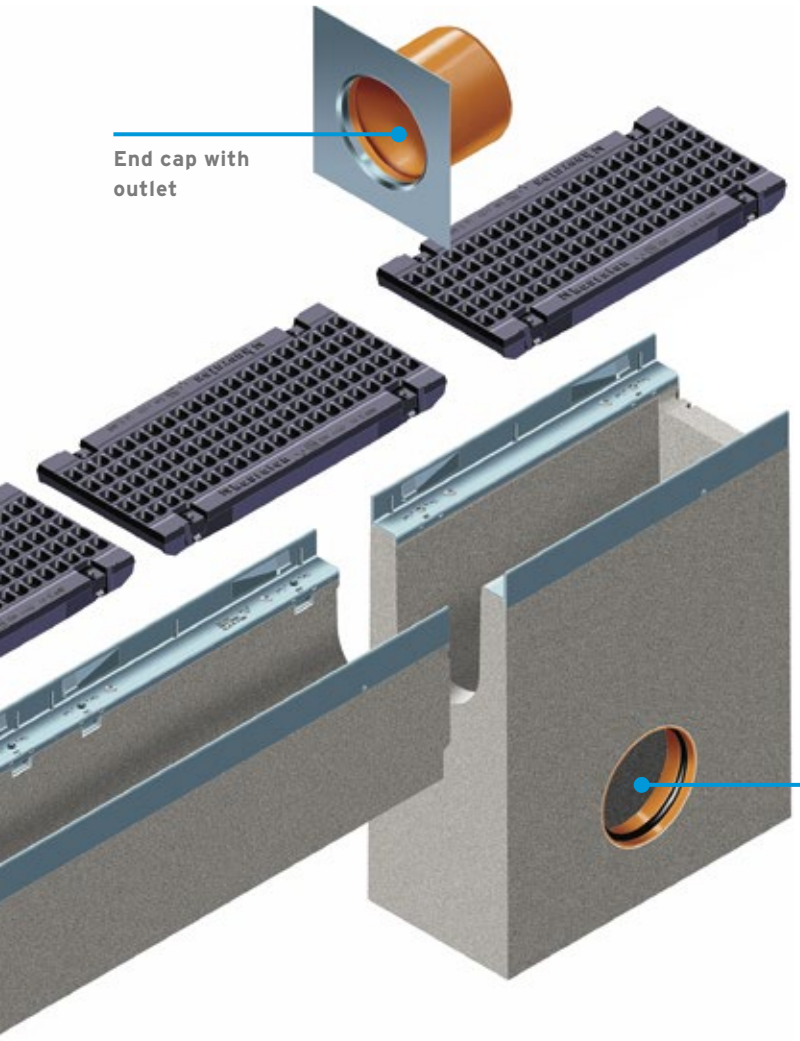
- **Category A 15, Load class 15 kN**
- **Category B 125, Load class 125 kN**
- **Category C 250, Load class 250 kN**
- **Category D 400, Load class 400 kN**
- **Category E 600, Load class 600 kN**
- **Category F 900, Load class 900 kN**



Grating options **FASERFIX** SUPER Channels

Load categories	Mesh grating* 	GUGI-Ductile iron mesh gratings*	Ductile iron gratings*	Solid covers*
C 250	300		300	
D 400			100, 150, 200, 300, 400, 500	
E 600		150, 200, 300, 400	500	150, 200, 300, 400, 500
F 900		100	150, 200, 300, 400, 500	

* sizes are nominal widths



Widths and heights of **FASERFIX** SUPER:

Nominal sizes	100			150			200			300			400			500		
Type 01	190	190	190	240	255	195	290	305	240	390	415	345	490	540	455	590	630	540
Type 01E	-	-	-	240	255	195	290	305	240	390	415	345	490	540	455	-	-	-
Type 01H	-	-	-	-	-	-	-	-	-	390	630	545	490	630	545	-	-	-
Type 010	190	235	185	240	309	249	290	350	285	390	460	390	-	-	-	-	-	-
Type 010E	-	-	-	-	-	-	290	350	285	-	-	-	-	-	-	-	-	-
Type 020	190	285	235	-	-	-	290	400	335	390	510	440	-	-	-	-	-	-
Type 020E	-	-	-	240	369	309	290	400	335	-	-	-	-	-	-	-	-	-
available with built-in fall	**-**			**x**			**x**			**x**			**-**			**-**		

Width/Height/Inside height (in mm)

FASERFIX®SUPER 100

Channels

FASERFIX®SUPER 100 with galvanised angle housings, up to load class F 900

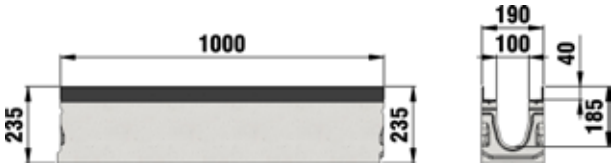
Type 01, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	190	190	80	51,59	6000
Type 0105, 0,5 m	500	190	190	80	25,30	6049
Type 01L with outlet, DN/OD 110, 1,0 m*	1000	190	190	80	50,20	6045
Type 010, 1,0 m	1000	190	235	125	61,00	6042
Type 01005, 0,5 m	500	190	235	125	31,00	6050
Type 010L, with outlet, DN/OD 110, 1,0 m*	1000	190	235	125	59,70	6046
Type 020, 1,0 m	1000	190	285	175	70,47	6044
Type 02005, 0,5 m	500	190	285	175	38,00	6048
Type 020L, with outlet, DN/OD 110, 1,0 m*	1000	190	285	175	69,17	6047

*** Position of the opening to the bottom of the channel. 100 mm from the centre of the hole (DN/OD 110) to the end of the channel.**

FASERFIX®SUPER 100 with ductile iron angle housings, up to load class F 900

Type 010 with KTL-coated ductile iron angle housing, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01 with KTL-coated ductile iron angle housing, 1,0 m	1000	190	190	80	52,42	1400
Type 010 with KTL-coated ductile iron angle housing, 1,0 m	1000	190	235	125	61,32	1442
Type 01005 with KTL-coated ductile iron angle housing, 0,5 m	500	190	235	125	31,21	1450
Type 020 with KTL-coated ductile iron angle housing, 1,0 m	1000	190	285	175	73,42	1444

Bolting required - see further accessories

Gratings

FASERFIX®SUPER 100, class D 400*

Ductile iron grating, SW 94/16 mm, black, with plastic caps, 0,5 m

Ductile iron grating SW 94/16 mm, black, KTL-coated, with plastic cap, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 94/16 mm, black, with plastic caps, 0,5 m	500	179	40	360	5,90	6063
Ductile iron grating SW 94/16 mm, black, KTL-coated, with plastic cap, locked, 0,5 m	500	179	40	360	6,10	6663
Ductile iron grating SW 94/16 mm, galvanised, with plastic caps, 0,5 m	500	179	40	360	5,97	6683

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

FASERFIX®SUPER 100, class F 900

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

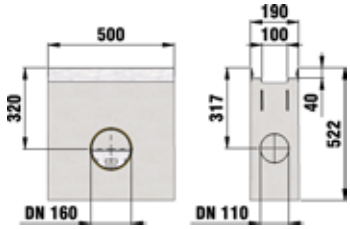
GUGI Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, with plastic caps, 0,5 m	500	179	40	494	7,60	6060
GUGI Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	179	40	494	7,60	6660

FASERFIX®SUPER 100

Accessories

Trash boxes



Trash box with galvanised mud bucket

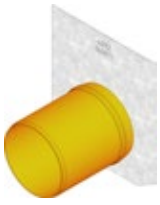
Trash box with ductile iron angle housing and galvanised mud bucket

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket	500	190	522	59,00	6052
Trash box with ductile iron angle housing and galvanised mud bucket	500	190	522	62,06	1452

End caps

End cap closed, type 01

End cap closed, galvanised, type 010



End cap with horizontal PVC-U pipe outlet galvanised, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 01	-	190	165	0,48	6081
End cap closed, galvanised, type 010	-	190	210	0,51	6082
End cap closed, galvanised, type 020	-	190	260	0,76	6083
End cap with horizontal PVC-U pipe outlet galvanised, type 010	-	190	210	0,66	6092
End cap with horizontal PVC-U pipe outlet galvanised, type 020	-	190	260	0,80	6093

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

FASERFIX®SUPER 100

Further accessories

PVC-U pipe connection element DN/OD 160

Mud bucket vertical made of modified composite for outlet DN/OD 110, black

Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Foul air trap DN/OD 110, with hole	-	-	103	0,24	964
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	1,60	705

**** Consumption for channel type 020: approx. 85 ml per joint.**

Factory-made services

Cutting to length of NW 100

Cutting for gradient for all nominal widths

Drilling of connecting holes DN/OD 110

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

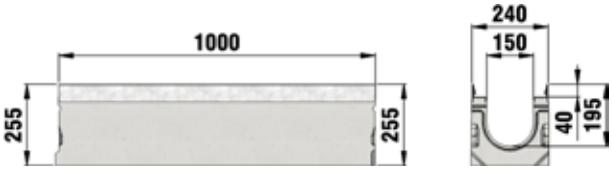
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 100	-	-	-	-	990
Mitre cuts NW 100 (price per cut, two cuts necessary)	-	-	-	-	995
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 110	-	-	-	-	972
Factory-made insertion of modified PP union connectors DN/OD 75 (incl. drilling)	-	-	-	-	981
Factory-made insertion of PVC-U union connectors DN/OD 110 (incl. drilling)	-	-	-	-	982
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®SUPER 150

Channels

FASERFIX®SUPER 150 with galvanised angle housings, **up to load class F 900**

Type 01, 1,0 m



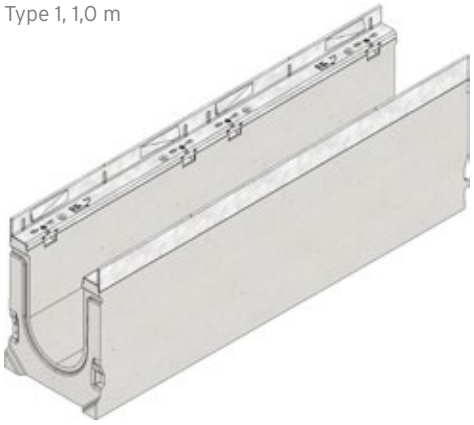
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	240	255	205	75,30	2000
Type 01L with hole, DN/OD 160, 1,0 m*	1000	240	255	205	77,00	2035
Type 0105, 0,5 m	500	240	255	205	37,00	2049
Type 010, 1,0 m	1000	240	300	272	84,40	2042
Type 010L with hole, DN/OD 160, 1,0 m*	1000	240	300	272	82,40	2036
Type 020, 1,0 m	1000	240	350	345	95,60	2044
Type 020L with hole, DN/OD 160, 1,0 m*	1000	240	350	345	93,60	2037
Type 01 E, 1,0 m	1000	240	255	223	80,00	2105

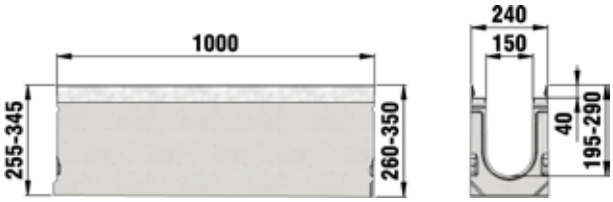
*** Position of the opening to the bottom of the channel. 130 mm from the centre of the hole (DN/OD 160) to the end of the channel.**

FASERFIX®SUPER 150

FASERFIX®SUPER 150 with built-in fall 0.5 %, **up to load class F 900**

Type 1, 1,0 m





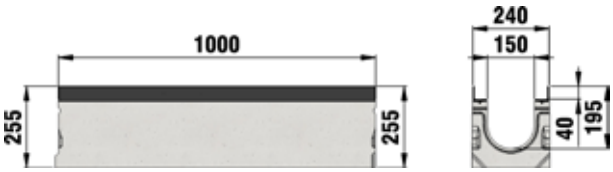
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 1, 1,0 m	1000	240	255 - 260	212	76,21	2001
Type 2, 1,0 m	1000	240	260 - 265	220	77,12	2002
Type 3, 1,0 m	1000	240	265 - 270	227	78,03	2003
Type 4, 1,0 m	1000	240	270 - 275	235	78,94	2004
Type 5, 1,0 m	1000	240	275 - 280	242	79,85	2005
Type 6, 1,0 m	1000	240	280 - 285	249	80,76	2006
Type 7, 1,0 m	1000	240	285 - 290	257	81,67	2007
Type 8, 1,0 m	1000	240	290 - 295	264	82,58	2008
Type 9, 1,0 m	1000	240	295 - 300	272	83,49	2009
Type 10, 1,0 m	1000	240	300 - 305	279	85,52	2010
Type 11, 1,0 m	1000	240	305 - 310	285	86,65	2011
Type 12, 1,0 m	1000	240	310 - 315	293	87,76	2012
Type 13, 1,0 m	1000	240	315 - 320	300	88,88	2013
Type 14, 1,0 m	1000	240	320 - 325	307	90,00	2014
Type 15, 1,0 m	1000	240	325 - 330	315	91,12	2015
Type 16, 1,0 m	1000	240	330 - 335	322	92,24	2016
Type 17, 1,0 m	1000	240	335 - 340	330	93,36	2017
Type 18, 1,0 m	1000	240	340 - 345	337	94,48	2018
Type 19, 1,0 m	1000	240	345 - 350	345	95,60	2019

FASERFIX®SUPER 150

Channels

FASERFIX®SUPER 150 with ductile iron angle housings, **up to load class F 900**

Type 01, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	240	255	205	79,66	2400
Type 0105, 0,5 m	500	240	255	205	39,21	2449
Type 010, 1,0 m	1000	240	300	272	88,76	2442
Type 020, 1,0 m	1000	240	350	345	99,96	2444

Bolting required - see further accessories

Gratings

FASERFIX®SUPER 150, **class D 400***

Ductile iron grating SW 150/18 mm, black, with plastic caps, 0,5 m

Ductile iron grating SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 150/18 mm, black, with plastic caps, 0,5 m	500	229	40	624	7,45	2463
Ductile iron grating SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	229	40	624	7,45	2483
Ductile iron grating SW 150/18 mm, galvanised, with plastic caps, 0,5 m	500	229	40	624	7,44	2493

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

Gratings

FASERFIX®SUPER 150, class E 600

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, with plastic caps, 0,5 m	500	229	40	628	11,50	2068

Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®SUPER 150, class F 900

Ductile iron grating
SW 20 mm, black,
with plastic caps, 0,5 m

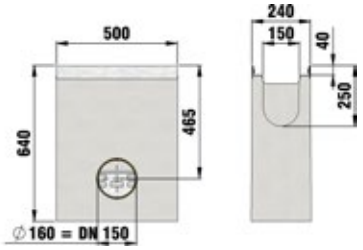
Ductile iron grating
SW 20 mm, black,
KTL-coated, with plastic caps,
locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	229	40	710	9,90	2061
Ductile iron grating SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	229	40	710	9,90	2861

FASERFIX®SUPER 150

Accessories

Trash boxes



Trash box
with galvanised bucket

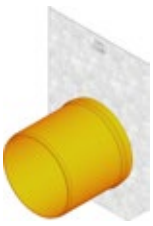
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	500	240	640	90,32	2052
Trash box with ductile iron angle housing and galvanised mud bucket	500	240	640	87,50	2452

End caps

End cap closed,
galvanised, type 01

End cap closed,
galvanised, type 010

End cap closed,
galvanised, type 020



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
galvanised, type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	240	255	0,93	2081
End cap closed, galvanised, type 010	-	240	300	1,13	2082
End cap closed, galvanised, type 020	-	240	350	1,36	2083
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 01	-	240	255	1,05	2091
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 010	-	240	300	1,24	2092
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 020	-	240	350	1,70	2093

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

FASERFIX®SUPER 150

Further accessories

Foul air trap
DN/OD 160

PVC-U pipe connection element
DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Foul air trap DN/OD 160	584	160	439	2,00	960
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	136018

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

Factory-made services

Cutting to length
of NW 150

Cutting for gradient
for all nominal widths

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

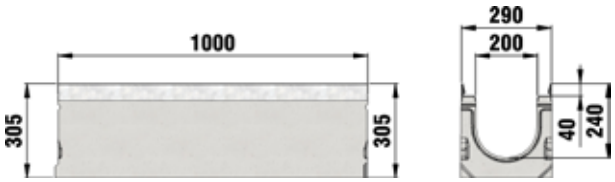
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 150	-	-	-	-	991
Mitre cuts NW 150 (price per cut, two cuts necessary)	-	-	-	-	996
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 160	-	-	-	-	973
Factory-made insertion of PVC-U union connectors DN/OD 160 (incl. drilling)	-	-	-	-	983
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®SUPER 200

Channels

FASERFIX®SUPER 200 with galvanised angle housings, **up to load class F 900**

Type 01, 1,0 m



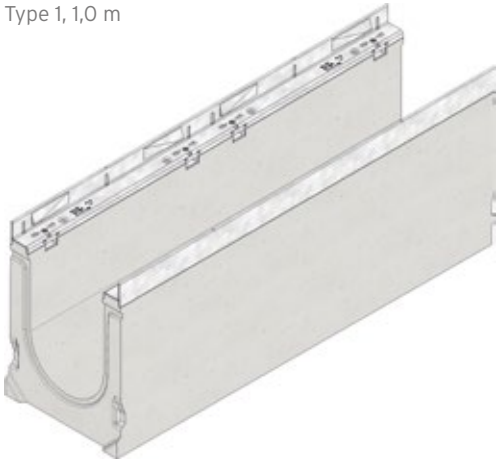
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	290	305	362	96,77	3000
Type 0105, 0,5 m	500	290	305	362	49,00	3049
Type 01L with hole, DN/OD 200, 1,0 m*	1000	290	305	362	99,00	3035
Type 010, 1,0 m	1000	290	350	447	107,09	3042
Type 010L with hole, DN/OD 200, 1,0 m*	1000	290	350	447	114,00	3036
Type 020, 1,0 m	1000	290	400	540	113,74	3044
Type 020L with hole, DN/OD 200, 1,0 m*	1000	290	400	540	125,00	3037
Type 01 E, 1,0 m	1000	290	305	386	104,50	3105
Type 010 E, 1,0 m	1000	290	350	473	113,50	3106
Type 020 E, 1,0 m	1000	290	400	568	124,50	3107

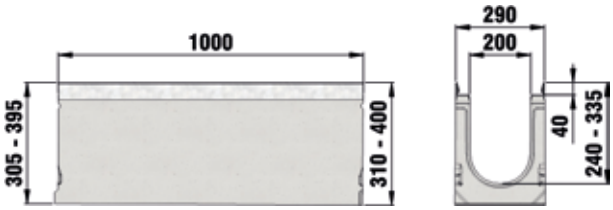
*** Position of the opening to the bottom of the channel. 200 mm from the centre of the hole (DN/OD 200) to the end of the channel.**

FASERFIX®SUPER 200

FASERFIX®SUPER 200 with built-in fall 0.5 %, **up to load class F 900**

Type 1, 1,0 m





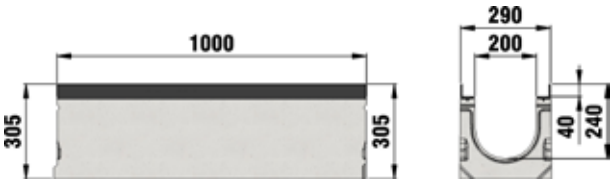
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 1, 1,0 m	1000	290	305 - 310	362	105,00	3001
Type 2, 1,0 m	1000	290	310 - 315	372	106,00	3002
Type 3, 1,0 m	1000	290	315 - 320	382	107,00	3003
Type 4, 1,0 m	1000	290	320 - 325	392	108,00	3004
Type 5, 1,0 m	1000	290	325 - 330	402	109,00	3005
Type 6, 1,0 m	1000	290	330 - 335	412	110,00	3006
Type 7, 1,0 m	1000	290	335 - 340	422	111,00	3007
Type 8, 1,0 m	1000	290	340 - 345	432	112,00	3008
Type 9, 1,0 m	1000	290	345 - 350	442	113,00	3009
Type 10, 1,0 m	1000	290	350 - 355	452	114,00	3010
Type 11, 1,0 m	1000	290	355 - 360	462	116,00	3011
Type 12, 1,0 m	1000	290	360 - 365	472	117,00	3012
Type 13, 1,0 m	1000	290	365 - 370	482	118,00	3013
Type 14, 1,0 m	1000	290	370 - 375	492	119,00	3014
Type 15, 1,0 m	1000	290	375 - 380	502	120,00	3015
Type 16, 1,0 m	1000	290	380 - 385	512	121,00	3016
Type 17, 1,0 m	1000	290	385 - 390	522	122,00	3017
Type 18, 1,0 m	1000	290	390 - 395	532	123,00	3018
Type 19, 1,0 m	1000	290	395 - 400	542	124,00	3019

FASERFIX®SUPER 200

Channels

FASERFIX®SUPER 200 with ductile iron angle housings, up to load class F 900

Type 01, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	290	305	362	96,72	3400
Type 0105, 0,5 m	500	290	305	362	50,21	3449
Type 010, 1,0 m	1000	290	350	447	106,54	3442
Type 020, 1,0 m	1000	290	400	540	126,42	3444

Bolting required - see further accessories

Gratings

FASERFIX®SUPER 200, class D 400*

Ductile iron grating, SW 170/18 mm, black, with plastic caps, 0,5 m

Ductile iron grating, SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 170/18 mm, black, with plastic caps, 0,5 m	500	279	40	732	9,26	3463
Ductile iron grating, SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	732	9,26	3483
Ductile iron grating SW 170/18 mm, galvanised, with plastic caps, 0,5 m	500	279	40	732	9,30	3493

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

Gratings

FASERFIX®SUPER 200, class E 600

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps, 0,5 m	500	279	40	818	12,65	3068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	279	40	818	12,60	3868

Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®SUPER 200, class F 900

Ductile iron grating,
SW 20 mm, black,
with plastic caps, 0,5 m

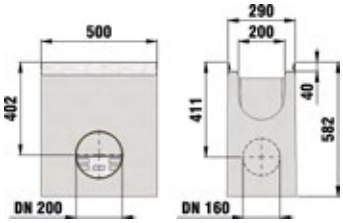
Ductile iron grating,
SW 20 mm, black, KTL-coated,
with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 20 mm, black, with plastic caps, 0,5 m	500	279	40	833	13,60	3061
Ductile iron grating, SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	833	13,70	3861

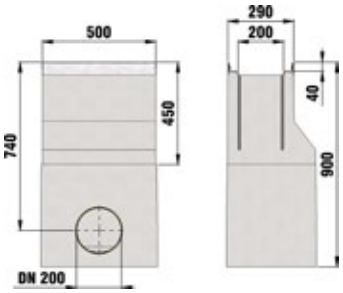
FASERFIX®SUPER 200

Accessories

Trash boxes



Trash box
with galvanised bucket



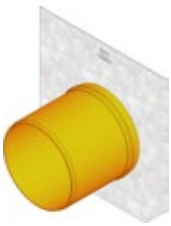
Trash box, 2-pieces
with galvanised bucket

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	500	290	582	92,00	3052
Trash box, 2-pieces with galvanised bucket	500	290	900	190,50	3054
Trash box with ductile iron angle housing and galvanised mud bucket	500	290	582	88,51	3452
Trash box, 2-pieces with ductile iron angle housing and galvanised mud bucket	500	290	900	196,46	3454

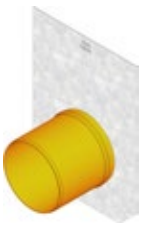
End caps

End cap closed,
galvanised, type 010

End cap closed,
galvanised, type 020



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
galvanised, type 01



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
galvanised, type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	290	305	1,35	3081
End cap closed, galvanised, type 010	-	290	350	1,58	3082
End cap closed, galvanised, type 020	-	290	400	1,79	3083
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 01	-	290	305	1,47	3091
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 020	-	290	400	1,84	3093

FASERFIX®SUPER 200

Further accessories

PVC-Connection
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 200 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,62	136202

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

Factory-made services

Cutting to length
of NW 200

Cutting for gradient
for all nominal widths

Drilling of connecting holes
DN/OD 200

Factory-made insertion
of PVC-U union connectors
DN/OD 200

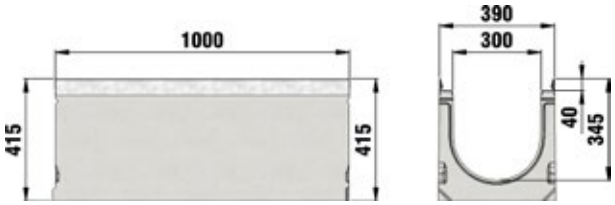
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 200	-	-	-	-	992
Mitre cuts NW 200 (price per cut, two cuts necessary)	-	-	-	-	997
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®SUPER 300

Channels

FASERFIX®SUPER 300 with galvanised angle housings, **up to load class F 900**

Type 01, 1,0 m



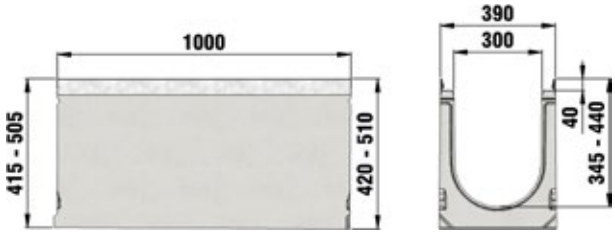
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	390	415	803	153,08	4000
Type 0105, 0,5 m	500	390	415	803	75,00	4001
Type 01L with outlet, DN/OD 200, 1,0 m*	1000	390	415	803	149,30	4045
Type 010, 1,0 m	1000	390	460	938	160,29	4242
Type 020, 1,0 m	1000	390	510	1088	173,11	4244
Type 01 H, 1,0 m	1000	390	630	1202	250,98	4044
Type 01 E, 1,0 m	1000	390	415	900	133,65	4105

*** Position of the opening to the bottom of the channel. 200 mm from the centre of the hole (DN/OD 200) to the end of the channel.**

FASERFIX®SUPER 300

FASERFIX®SUPER 300 with galvanised angle housings, with built-in fall 0.5 %, up to loading class F 900

Type 1, 1,0 m



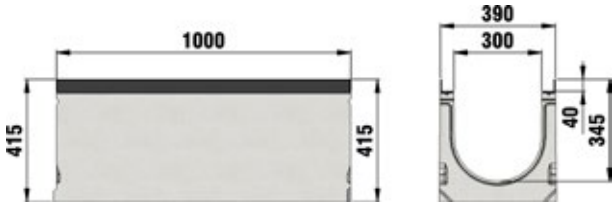
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 1, 1,0 m	1000	390	415 - 420	811	151,00	4201
Type 2, 1,0 m	1000	390	420 - 425	826	152,00	4202
Type 3, 1,0 m	1000	390	425 - 430	841	153,00	4203
Type 4, 1,0 m	1000	390	430 - 435	856	154,00	4204
Type 5, 1,0 m	1000	390	435 - 440	871	155,00	4205
Type 6, 1,0 m	1000	390	440 - 445	886	156,00	4206
Type 7, 1,0 m	1000	390	445 - 450	901	157,00	4207
Type 8, 1,0 m	1000	390	450 - 455	916	158,00	4208
Type 9, 1,0 m	1000	390	455 - 460	931	159,00	4209
Type 10, 1,0 m	1000	390	460 - 465	946	160,00	4210
Type 11, 1,0 m	1000	390	465 - 470	961	161,00	4211
Type 12, 1,0 m	1000	390	470 - 475	976	162,00	4212
Type 13, 1,0 m	1000	390	475 - 480	991	163,00	4213
Type 14, 1,0 m	1000	390	480 - 485	1006	164,00	4214
Type 15, 1,0 m	1000	390	485 - 490	1021	165,00	4215
Type 16, 1,0 m	1000	390	490 - 495	1036	166,00	4216
Type 17, 1,0 m	1000	390	495 - 500	1051	167,00	4217
Type 18, 1,0 m	1000	390	500 - 505	1066	168,00	4218
Type 19, 1,0 m	1000	390	505 - 510	1081	169,00	4219

FASERFIX®SUPER 300

Channels

FASERFIX®SUPER 300 with ductile iron angle housings, **up to load class F 900**

Type 01, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	390	415	803	154,40	4600
Type 0105, 0,5 m	500	390	415	803	79,57	4649
Type 01H, 1,0 m	1000	390	630	1202	262,14	4644

Bolting required - see further accessories

FASERFIX®SUPER 300

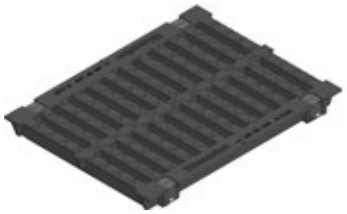
Gratings

FASERFIX®SUPER 300, class C 250

Mesh grating MW 30/15 mm,
galvanised, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Mesh grating MW 30/15 mm, galvanised, 1,0 m	1000	375	40	2127	26,08	4075
Mesh grating MW 30/15 mm, galvanised, 0,5 m	500	375	40	2127	13,31	4076

FASERFIX®SUPER 300, class D 400*



Ductile iron grating,
SW 2 x 136/18 mm, black,
with plastic caps, 0,5 m

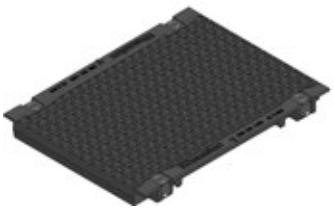
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/18 mm, black, with plastic caps, 0,5 m	500	377	40	1150	16,90	4563
Ductile iron grating, SW 2 x 136/18 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1150	16,90	4543

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

FASERFIX®SUPER 300

Gratings

FASERFIX®SUPER 300, class E 600



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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, with plastic caps, 0,5 m	500	377	40	1172	21,80	4068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1172	22,50	4868

Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®SUPER 300, class F 900

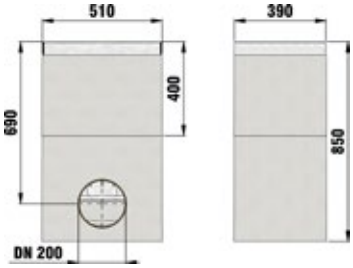
Ductile iron grating,
SW 2 x 136/20 mm, black,
with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/20 mm, black, with plastic caps, 0,5 m	500	377	40	1334	23,20	4061
Ductile iron grating, SW 2 x 136/20 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1334	23,20	4861

Accessories

Trash boxes

Trash box,
two parts, without grating

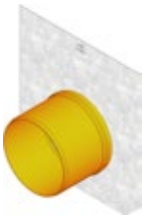


Extension part

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box, two parts, without grating	510	390	850	183,50	4050
Trash box, 2-pieces with ductile iron angle housing and galvanised mud bucket	510	390	850	216,50	4652
Extension part	510	390	400	81,66	4054
Trash box 2-parts with PE-HD pipe, ductile iron angle housing and gate valve	510	390	850	217,00	4660

End caps

End cap closed,
galvanised, type 01



End cap with horizontal
PVC-U pipe outlet DN/OD 200,
galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	390	415	2,49	4081
End cap closed, galvanised, type 010	-	390	460	2,73	32973
End cap closed, galvanised, type 020	-	390	510	3,05	32974
End cap closed, galvanised, type 01H	-	390	630	3,75	4083
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01	-	390	415	2,80	4085
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 010	-	390	460	3,27	32977
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 020	-	390	510	3,57	32978
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01H	-	390	630	4,50	4088

FASERFIX®SUPER 300

Accessories

Further accessories

PVC-Connection
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 300 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	3,66	136242

**** Consumption for channel type 01H: approx. 169 ml per joint.**

FASERFIX®SUPER 300

Factory-made services

Cutting to length of NW 300

Mitre cuts NW 300 (price per cut, two cuts necessary)

Cutting for gradient for all nominal widths

Drilling of connecting holes DN/OD 200

Factory-made insertion of PVC-U union connectors DN/OD 200

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

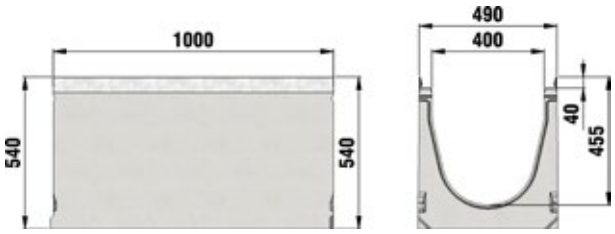
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 300	-	-	-	-	993
Mitre cuts NW 300 (price per cut, two cuts necessary)	-	-	-	-	998
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Drilling of connection holes DN/OD 315	-	-	-	-	978
Factory-made insertion of PVC-U union connectors DN/OD 315 (incl. driling)	-	-	-	-	979
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®SUPER 400

Channels

FASERFIX®SUPER 400 with galvanised angle housings, **up to load class F 900**

Type 01, 1,0 m



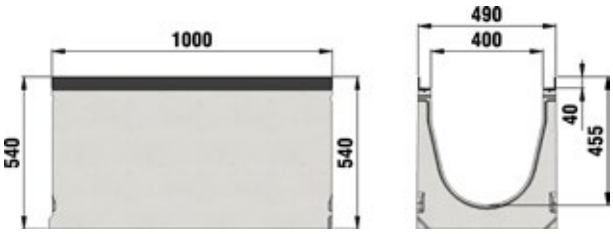
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	490	540	1383	252,00	4111
Type 01L with outlet, DN/OD 200, 1,0 m*	1000	490	540	1383	241,52	4112
Type 01H, 1,0 m	1000	490	630	1758	258,35	4116
Type 01E, 1,0 m	1000	490	540	1498	223,00	4011

*** Position of the opening to the bottom of the channel. 200 mm from the centre of the hole (DN/OD 200) to the end of the channel.**

FASERFIX®SUPER 400

FASERFIX®SUPER 400 with ductile iron angle housings, **up to load class F 900**

Type 01, 1,0 m



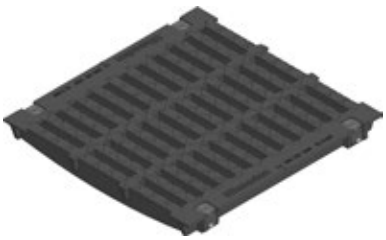
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	490	540	1383	256,00	9200
Type 01H, 1,0 m	1000	490	630	1758	267,14	9244

Bolting required - see further accessories

FASERFIX®SUPER 400

Gratings

FASERFIX®SUPER 400, class D 400*

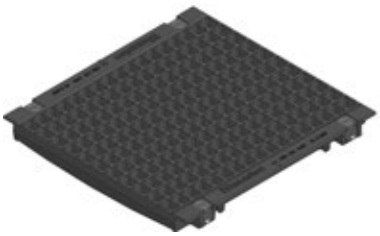


Ductile iron grating, SW 18 mm, black, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 18 mm, black, with plastic caps, 0,5 m	500	477	40	1420	25,40	4663

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

FASERFIX®SUPER 400, class E 600



GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps	500	477	40	1634	30,00	4168

Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®SUPER 400

FASERFIX®SUPER 400, class F 900

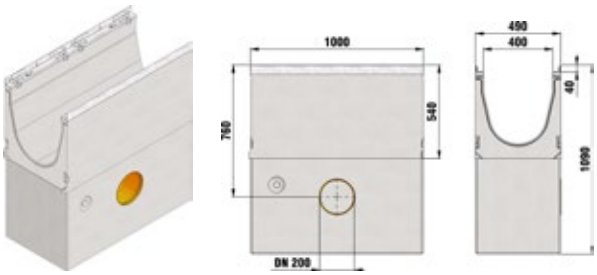
Ductile iron grating SW 20 mm,
black, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	477	40	1618	38,70	4161

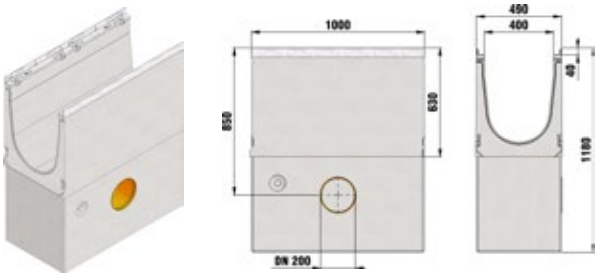
FASERFIX®SUPER 400

Accessories

Trash boxes



Trash box element with galvanised mud bucket for type 01*



Trash box element with galvanised mud bucket for type 01 H

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element with galvanised mud bucket for type 01*	1000	490	1090	847,00	4120
Trash box element with galvanised mud bucket for type 01 H	1000	490	1180	852,00	4125

*** For positioning at the end of channel run, a closed end cap is required.**

End caps

End cap closed, galvanised, type 01

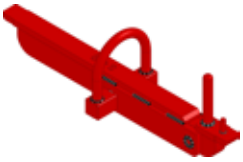
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	490	540	4,09	4091
End cap closed, galvanised, type 01H	-	490	630	4,84	4092
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01	-	490	540	5,18	4093
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01H	-	490	630	5,20	4097
End cap with horizontal PVC-U pipe outlet DN/OD 315, galvanised, type 01	-	490	540	5,23	42497

FASERFIX®SUPER 400

Further accessories

PVC-Connection
DN/OD 200



Installation aid NW 400 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 400 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	5,23	136304

**** Consumption for channel type 01H: approx. 172 ml per joint.**

Factory-made services

Cutting to length
of NW 500

Cutting for gradient
for all nominal widths

Drilling of connecting holes
DN/OD 200

Factory-made insertion
of PVC-U union connectors
DN/OD 200

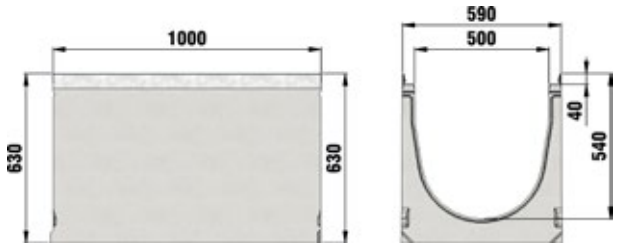
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 400	-	-	-	-	985
Mitre cuts NW 400 (price per cut, two cuts necessary)	-	-	-	0,01	949
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Drilling of connection holes DN/OD 315	-	-	-	-	978
Factory-made insertion of PVC-U union connectors DN/OD 315 (incl. driling)	-	-	-	-	979
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®SUPER 500

Channels

FASERFIX®SUPER 500 with galvanised angle housings, **up to load class F 900**

Type 01, 1,0 m



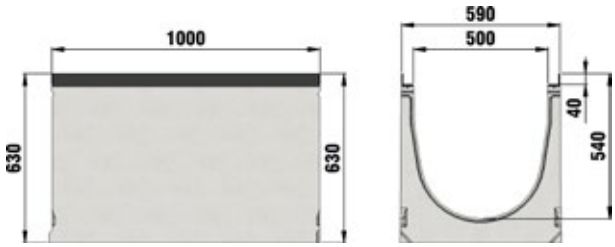
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	590	630	2141	302,55	4121
Type 01L with outlet, DN/OD 200, 1,0 m*	1000	590	630	2141	303,70	4122

*** Position of the opening to the bottom of the channel. 200 mm from the centre of the hole (DN/OD 200) to the end of the channel.**

FASERFIX®SUPER 500

FASERFIX®SUPER 500 with ductile iron angle housings, **up to load class F 900**

Type 01, 1,0 m



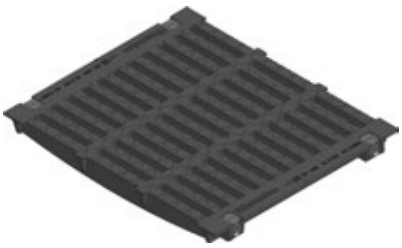
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	590	630	2141	308,80	9300

Bolting required - see further accessories

FASERFIX®SUPER 500

Gratings

FASERFIX®SUPER 500, class D 400*



Ductile iron grating, SW 18 mm,
black, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 18 mm, black, with plastic caps, 0,5 m	500	577	40	1808	32,50	4683

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

FASERFIX®SUPER 500, class E 600

Ductile iron grating SW 20 mm,
black, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	577	40	2061	45,00	4182

Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®SUPER 500

FASERFIX®SUPER 500, class F 900

Ductile iron grating SW 20 mm,
black, with plastic caps, 0,5 m

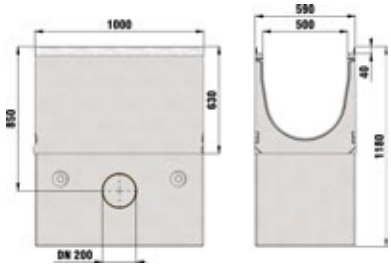
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	577	40	2061	46,50	4181
Ductile iron grating SW 3 x 140/20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	577	40	2061	41,66	5381

FASERFIX®SUPER 500

Accessories

Trash boxes

Trash box element
with galvanised mud bucket
for type 01*



	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element with galvanised mud bucket for type 01*	1000	590	1180	1031,00	4130

*** For positioning at the end of channel run, a closed end cap is required.**

End caps

End cap closed,
galvanised, type 01

End cap with horizontal
PVC-U pipe outlet DN/OD 200,
galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	590	630	5,78	4096
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 01	-	590	630	8,00	4095

FASERFIX®SUPER 500

Further accessories

PVC-Connection
DN/OD 200

Installation aid NW 500 (exclusively , for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 500 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	6,51	136366

**** Consumption for channel type 01: approx. 184 ml per joint.**

Factory-made services

Cutting to length
of NW 500

Cutting for gradient
for all nominal widths

Drilling of connecting holes
DN/OD 200

Factory-made insertion
of PVC-U union connectors
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 500	-	-	-	-	989
Mitre cuts NW 500 (price per cut, two cuts necessary)	-	-	-	0,01	959
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Drilling of connection holes DN/OD 315	-	-	-	-	978
Factory-made insertion of PVC-U union connectors DN/OD 315 (incl. driling)	-	-	-	-	979
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX KS

Stable and efficient drainage channels for commercial and public areas.

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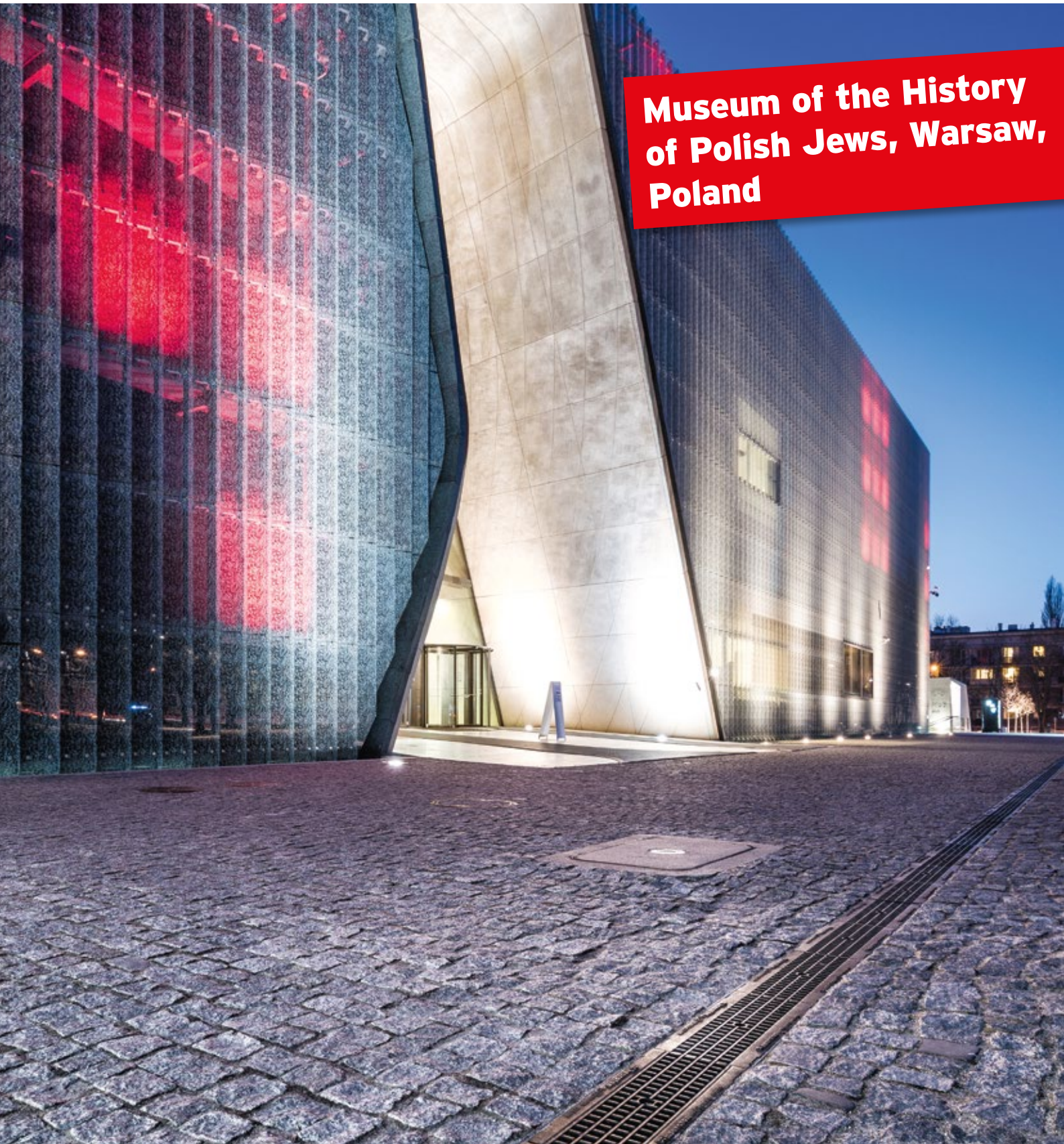


Museum of the History of Polish Jews, Warsaw, Poland

FASERFIX KS

Stable and efficient drainage channels for commercial and public areas.

1 Requirements

Drainage channels for commercial and public areas must

- withstand daily traffic by cars and trucks.
- be visually appealing.
- guarantee a simple and safe installation in all surfaces.
- correspond to DIN EN 1433.

2 Application areas

- public and commercial areas
- squares and parks
- railway stations
- parking lots

3 Solutions

Therefore FASERFIX KS channels offer solutions for any type of application in public and commercial areas:

- stable channels made from fibre-reinforced concrete
- high stability, reduced weight
- boltless locking system SIDE-LOCK with additional possibility to lock with locking handle
- corrosion-resistant galvanised or stainless steel angle housing

Public area, Poland

Public area, Poland

Company parking lots, Great Britain

Museum in Gdansk, Poland

Railway station in Sopot, Poland

Johann Wolfgang Goethe University hospital, Frankfurt, Germany

FASERFIX KS

Stable and efficient drainage channels for commercial and public sectors.

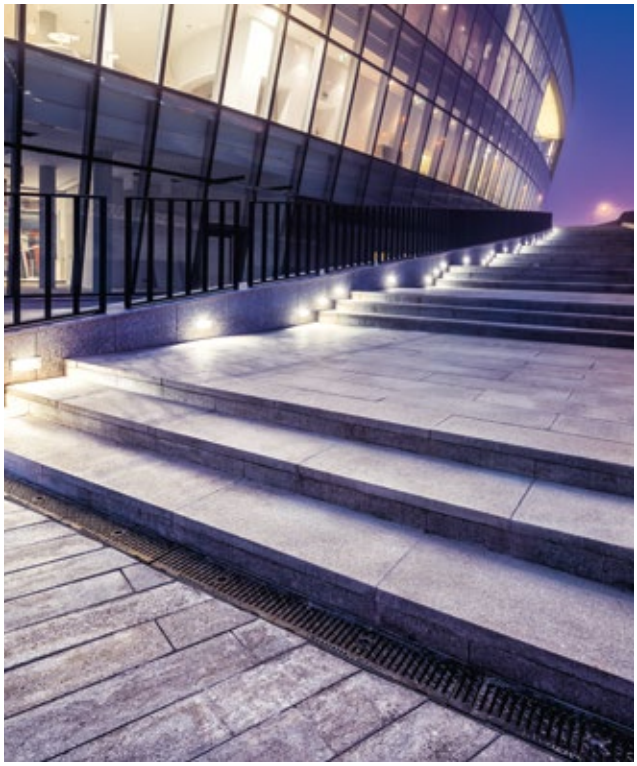
Architecturally sophisticated ICE congress centre in Krakow with a new reliable drainage system.

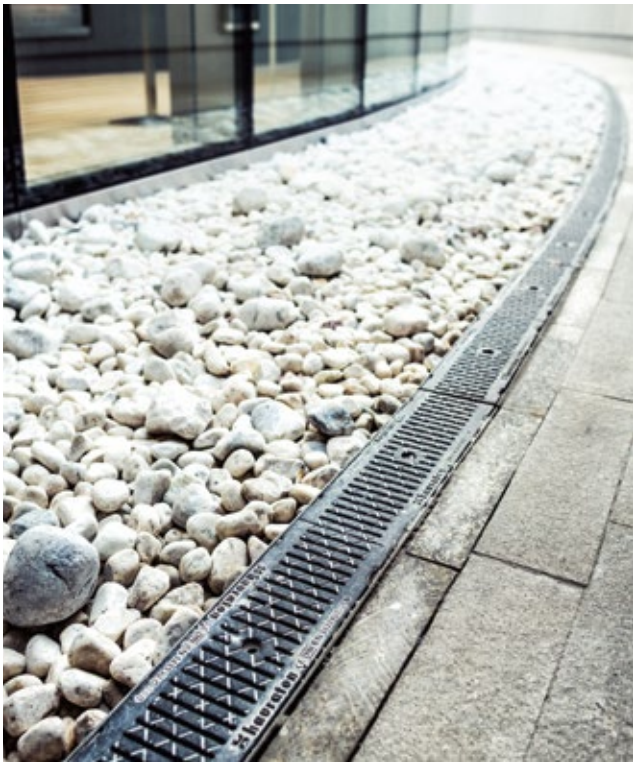
Continuous service for over 13 years:

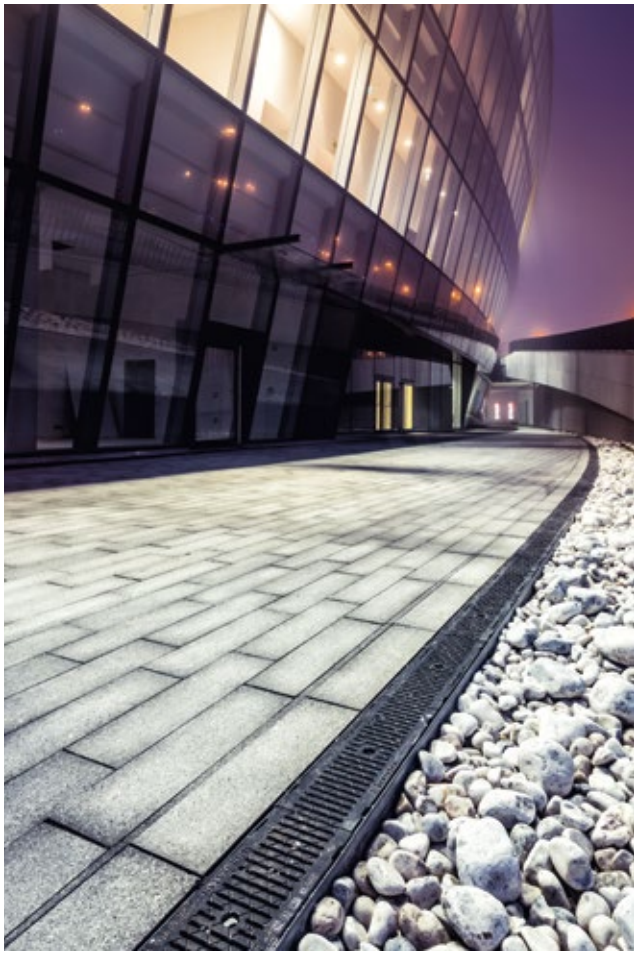
FASERFIX KS channels offer much more than a reliable and efficient drainage: for the optically sophisticated congress centre in Krakow, the cultural capital of Poland, these represent an ideal solution for modern and unique architecture. Not only because of the 36,000 m² of the conference space and a capacity of 2,000 people in the auditorium does the ICE meet all requirements for international congress organizations. It also has the highest standards in the field of acoustics and stage technology.

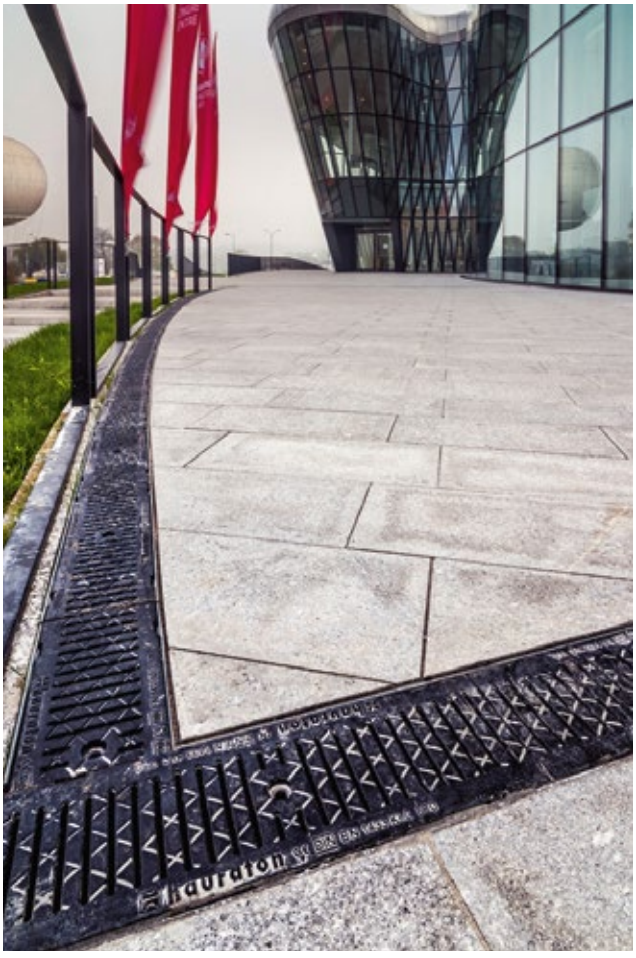
Why planners of the ICE in Krakow chose HAURATON:

- attractive design to complement the modern architecture (an impressive shape of the building, facade of glass, titanium, zinc and custom-designed ceramic and stone tiles)
- safe and reliable drainage
- flexible system to suit individual requirements
- T-connections for wiring possible
- high hydraulic performance due to large drainage cross-section
- various products that still result in a harmonious appearance









YOUR BENEFITS WITH **FASERFIX** KS

HIGH PERFORMANCE ANGLE HOUSING & SIDE-LOCK

- 20 mm x 20 mm angle housing and inlaying grating
- extremely stable connection between steel angle housing and concrete channel body
- 10 fixing points for gratings per metre (incl. 2 times with optional locking handle)
- extra protection against lateral movement
- 90 % time savings in fixing the grating with **SIDE-LOCK** (compared to a conventional fixing)
- replace and insert the grating without any special tool, a screwdriver is enough

= QUALITY ASSURED & COST SAVINGS

NUMEROUS GRATING OPTIONS

- made of ductile iron, composite, galvanised or stainless steel
- narrow slot width for pedestrian areas available

= DESIGN FLEXIBILITY

HIGH STABILITY

- maximum lateral stability through extra thick walls compared to many competitors' products for additional security in extreme situations
- installation for asphalted surface up to class E 600 without concrete stretcher

= QUALITY- & PERFORMANCE ASSURED

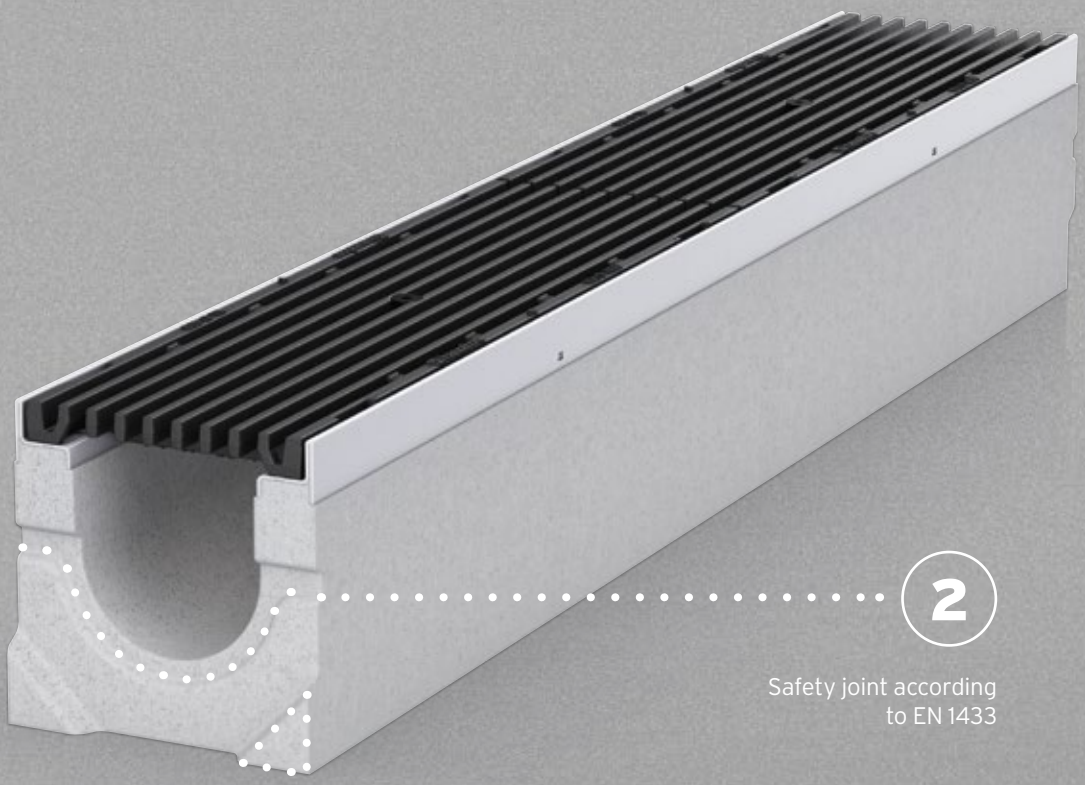
HIGH-TECH MATERIAL

- „Made in Germany"
- maximum stability through fibre - reinforced concrete (polypropylene fibres) with low weight
- adheres well to foundation concrete (same coefficient with regard to thermal expansion)
- installation without grating possible
- fire resistance class A1 (not flammable) according to DIN 4102

= QUALITY- & PERFORMANCE ASSURED

IDEAL FOR ...

applications with high loads up to class F 900, such as traffic areas for commercial and public areas.

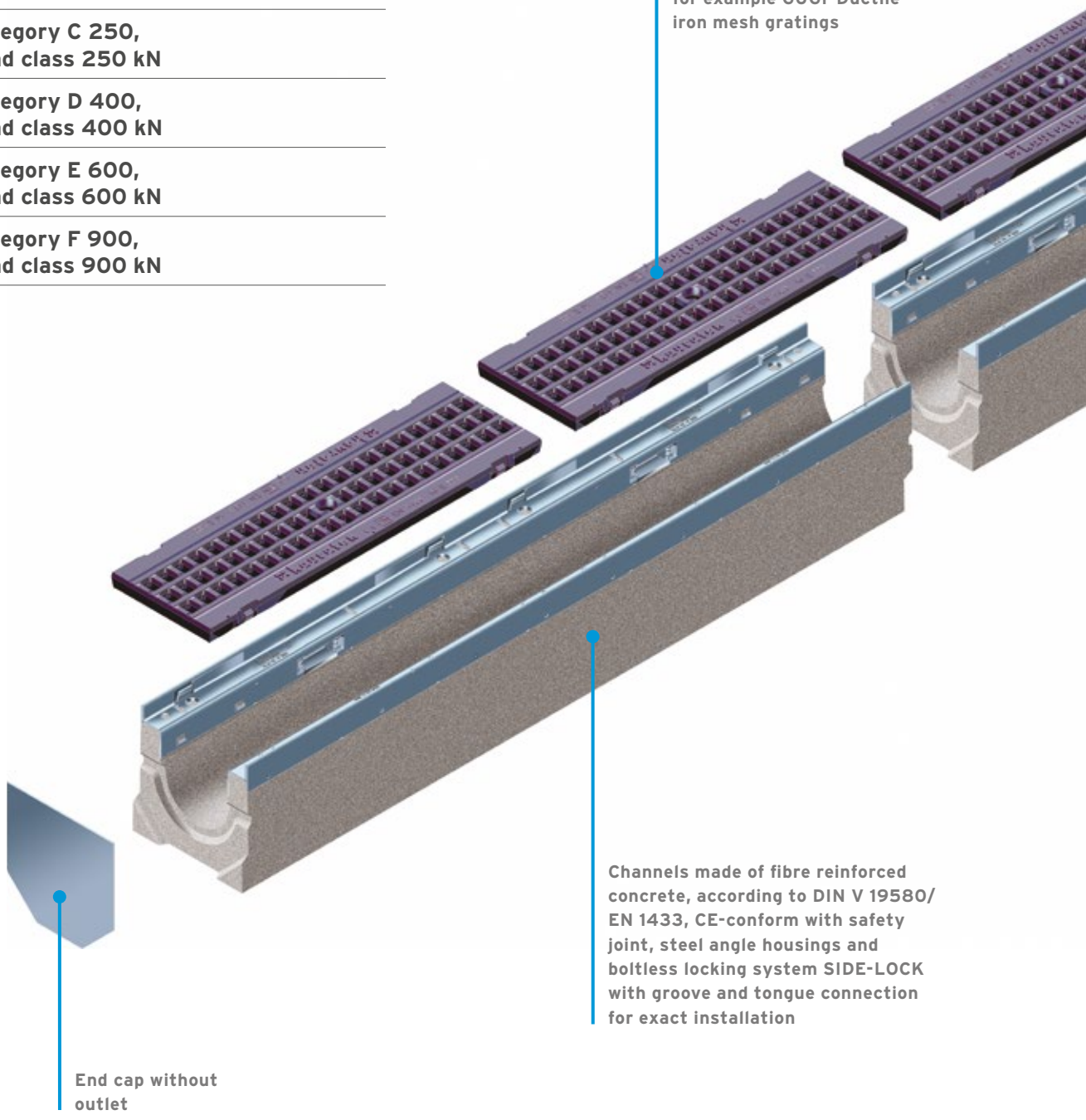


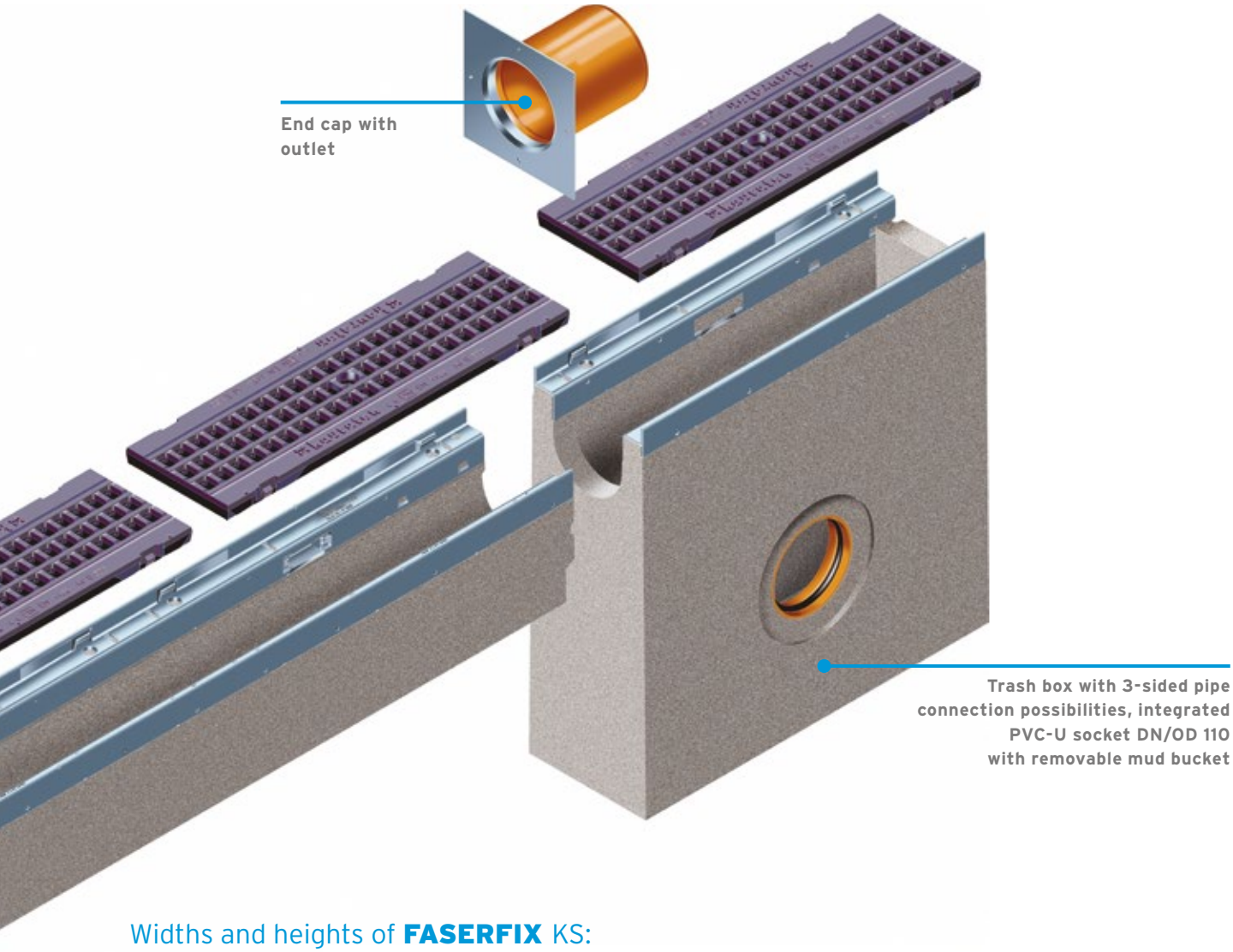
FASERFIX KS

Stable and efficient drainage channels for commercial and public sectors.

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

	Category A 15, Load class 15 kN
	Category B 125, Load class 125 kN
	Category C 250, Load class 250 kN
	Category D 400, Load class 400 kN
	Category E 600, Load class 600 kN
	Category F 900, Load class 900 kN





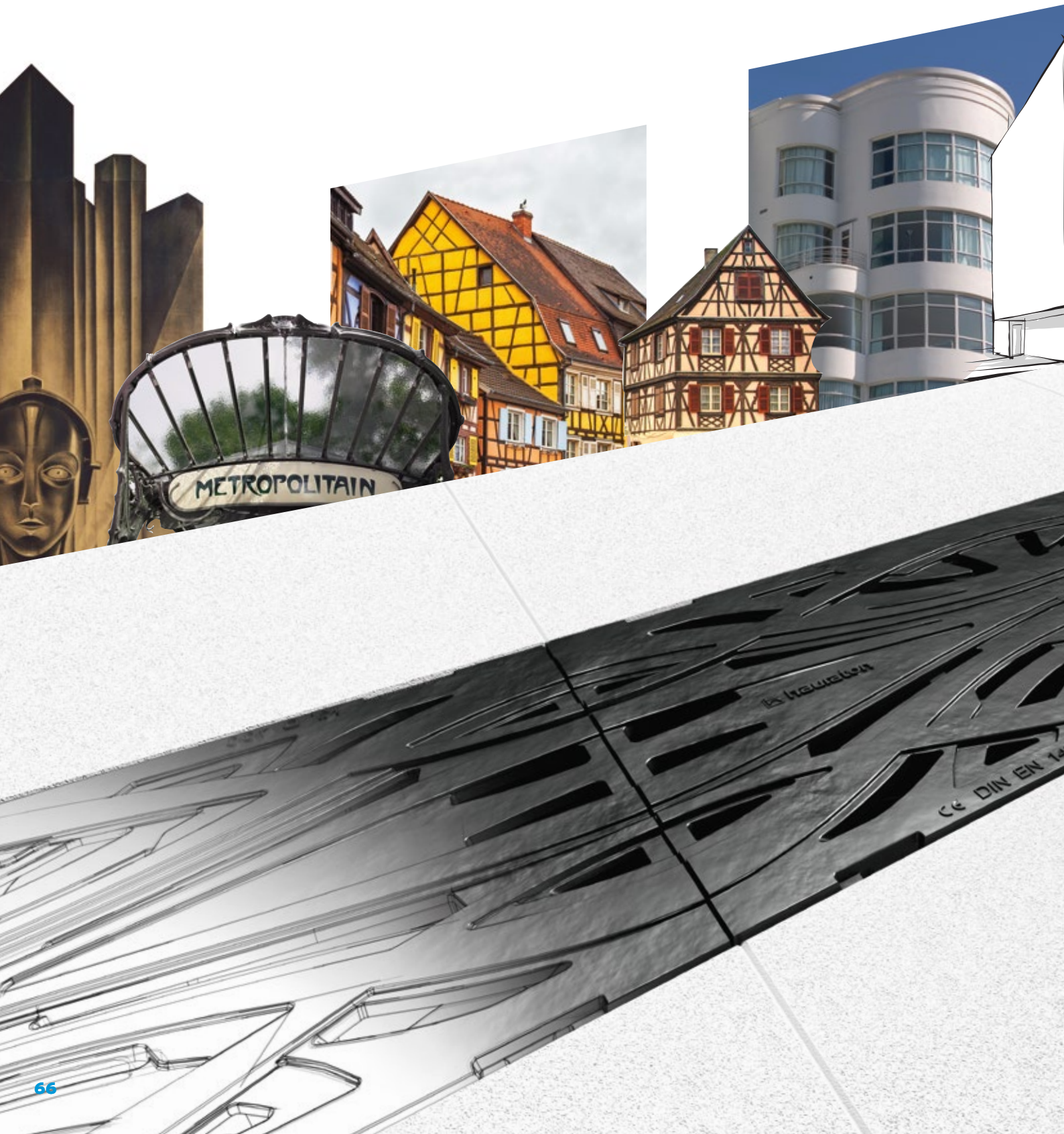
Widths and heights of **FASERFIX** KS:

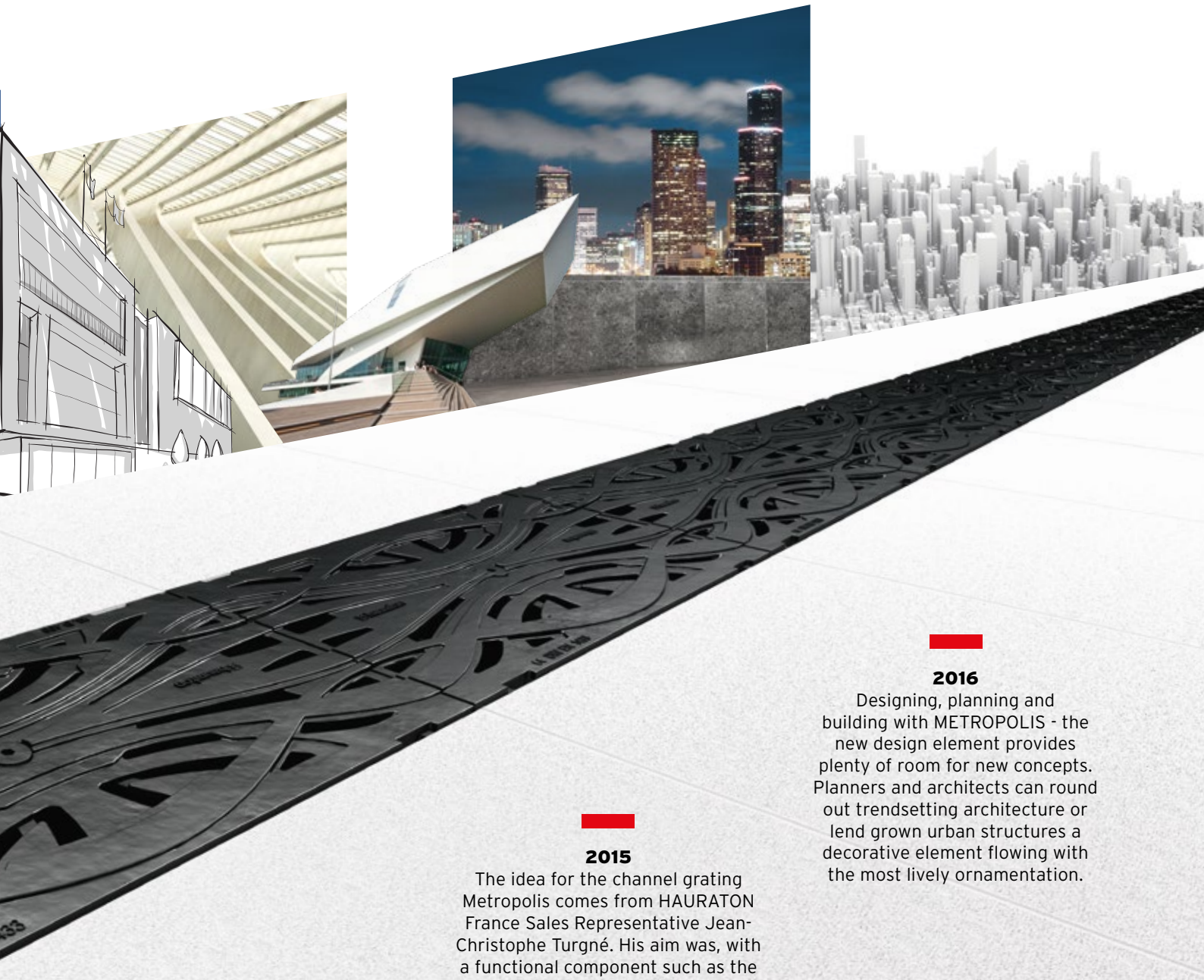
Nominal sizes	100			150			200			300		
Type 80	160	80	55	-	-	-	-	-	-	-	-	-
Type 100	160	100	75	-	-	-	-	-	-	-	-	-
Type 110	-	-	-	210	110	70	260	110	70	-	-	-
Type 150	-	-	-	210	150	110	260	150	110	-	-	-
Type 200	-	-	-	210	200	160	260	200	160	-	-	-
Type 01	160	160	120	210	220	170	260	275	220	-	-	-
Type 05	160	184	144	-	-	-	-	-	-	-	-	-
Type 010	160	214	174	210	265	215	260	320	265	360	340	270
Type 015	160	244	204	210	290	240	260	345	290	-	-	-
Type 020	160	274	234	210	315	265	260	370	315	-	-	-
available with built-in fall	**x**			**x**			**x**			**-**		

Width/Height/Inside height (in mm)

METROPOLIS

Inspired from history – Made for the future





1927
The movie ‚Metropolis', by Fritz Lang, has influenced various genres since its creation in 1927. With the expressionist representation of a futuristic metropolis, the film producer developed a leitmotif that still inspires artists and designers today.

2015
The idea for the channel grating Metropolis comes from HAURATON France Sales Representative Jean-Christophe Turgné. His aim was, with a functional component such as the drainage channel, to set standards with respect to aesthetics and to impart specific construction projects with futuristic, decorative details.

2016
Designing, planning and building with METROPOLIS - the new design element provides plenty of room for new concepts. Planners and architects can round out trendsetting architecture or lend grown urban structures a decorative element flowing with the most lively ornamentation.

The new style of drainage!

Artistically combined, uniquely attractive: coloured FIBRETEC gratings.

FIBRETEC

The art of drainage has many styles. With the coloured FIBRETEC gratings, HAURATON creates a completely new scope of design.

The unique channel gratings in the colours Fern, Sand and Stone can be combined with different materials. Thus, new compositions of colours and textures can always be created. As desired, the coloured FIBRETEC gratings can accentuate the colour composition of the surroundings or harmonize as a complete work of art.

Focus Open Silver 2010

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.

UV

The production of the coloured FIBRETEC gratings in the colours Fern, Sand and Stone is done with coloured granulate. The result are uniformly coloured gratings which are particularly weather and UV-resistant.
This was tested and approved in the laboratory according to DIN EN ISO 4892-2 as required by DIN 19580:
The 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.

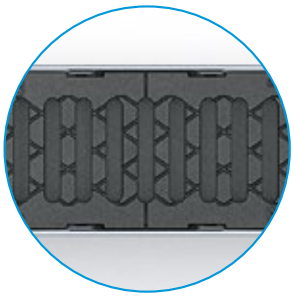
FIBRETEC in Fern

FIBRETEC in Sand

FIBRETEC in Stone

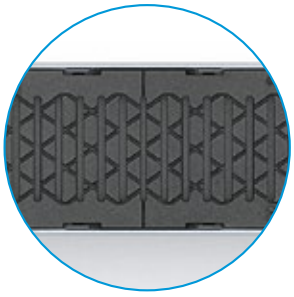
FIBRETEC in Black

Grating options
FASERFIX KS 100



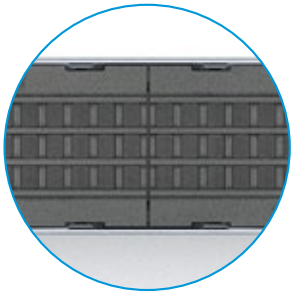
Ductile iron gratings

Slot width: 100 x 14 mm



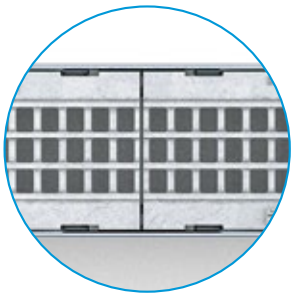
Ductile iron gratings

Slot width: 100 x 6 mm



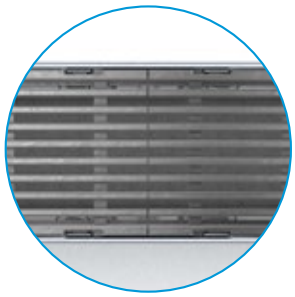
GUGI-Ductile iron mesh gratings

Mesh width: 15 x 25 mm



GUGI-Ductile iron mesh gratings, galvanised

Mesh width: 15 x 25 mm

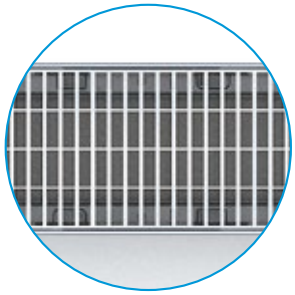


Longitudinal ductile iron grating, KTL

Bar distance: 9 mm

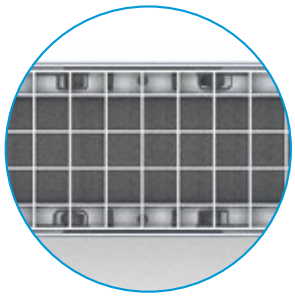
Longitudinal ductile iron grating, galvanised

Bar distance: 9 mm



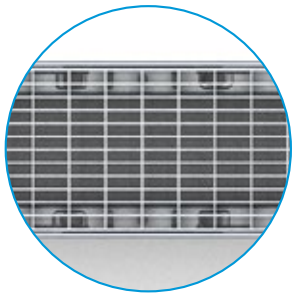
Mesh grating, galvanised

Mesh width: 11 x 30 mm



Mesh grating, galvanised

Mesh width: 30 x 30 mm



Mesh grating, galvanised

Mesh width: 30 x 10 mm

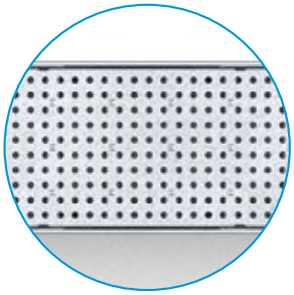
Grating options
FASERFIX KS 100

Slotted grating, galvanised

Slot width: 80 x 10 mm

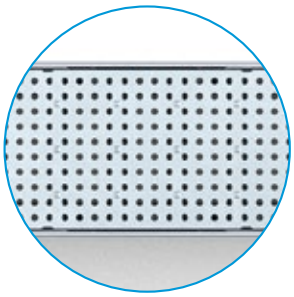
Slotted grating, stainless steel

Slot width: 80 x 10 mm



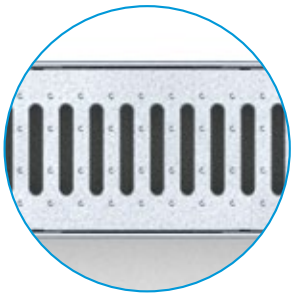
Perforated grating, galvanised

Hole diameter: 6 mm



Perforated grating, stainless steel

Hole diameter: 6 mm

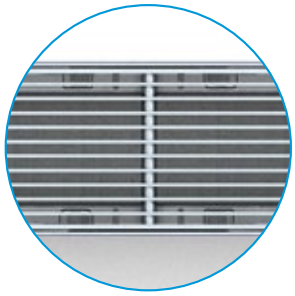


Reinforced slotted grating, galvanised

Slot width: 80 x 10 mm

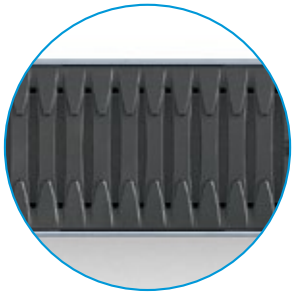
Reinforced slotted grating, stainless steel

Slot width: 80 x 10 mm



Longitudinal slot grating, stainless steel

Bar distance: 10 mm



FIBRETEC design slotted grating, composite material

Slot width: 9 mm

GUGI-Ductile iron mesh grating, composite material

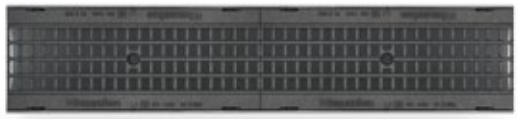
Mesh width: 15 x 25 mm

Ductile iron design grating, METROPOLIS, black, KTL

Grating options
FASERFIX KS 150

Ductile iron gratings

Slot width: 132 x 20 mm



GUGI-Ductile iron mesh gratings

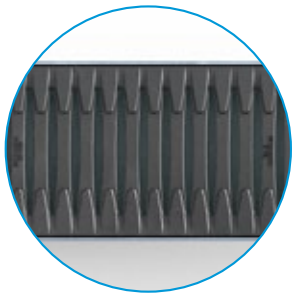
Mesh width: 15 x 25 mm

Longitudinal ductile iron grating, KTL

Bar distance: 9 mm

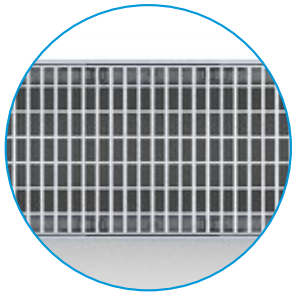
Longitudinal ductile iron grating, galvanised

Bar distance: 9 mm



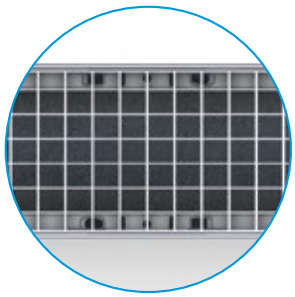
FIBRETEC design slotted grating, black

Slot width: 9 mm



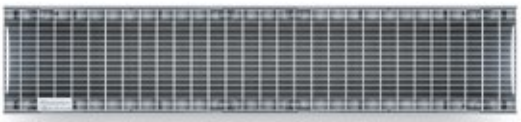
Mesh grating, galvanised

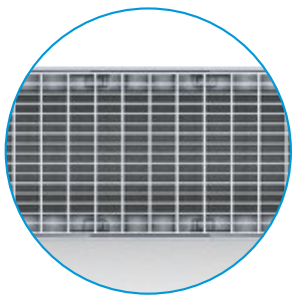
Mesh width: 11 x 30 mm



Mesh grating, galvanised

Mesh width: 30 x 30 mm

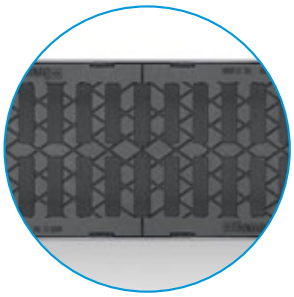




Mesh grating, galvanised

Mesh width: 30 x 10 mm

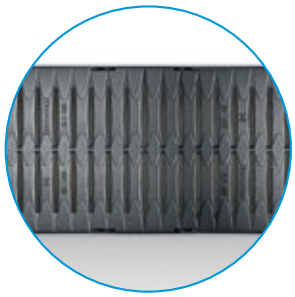
Grating options
FASERFIX KS 150



Ductile iron gratings

Slot width: 2 x 85 x 20 mm

Grating options
FASERFIX KS 200

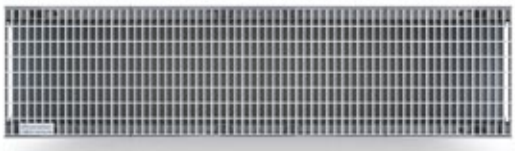


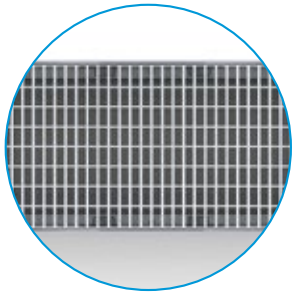
G-TEC Ductile iron grating, KTL

Slot width: 2 x 85 x 9 mm

GUGI-Ductile iron mesh gratings

Mesh width: 15 x 25 mm





Mesh grating, galvanised

Mesh width: 11 x 30 mm

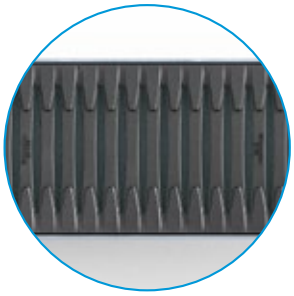
Longitudinal ductile iron grating, galvanised

Bar distance: 9 mm

Grating options
FASERFIX KS 200

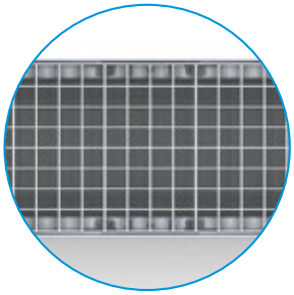
Ductile iron longitudinal grating, KTL

Bar distance: 9 mm



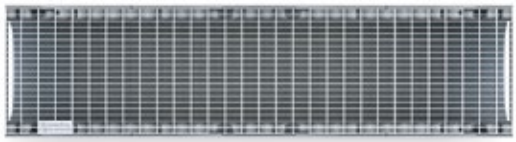
FIBRETEC design slotted grating, composite material

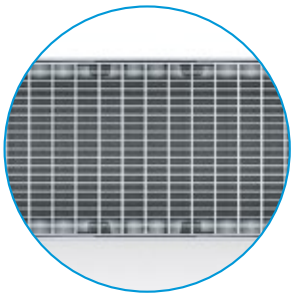
Slot width: 9 mm



Mesh grating, galvanised

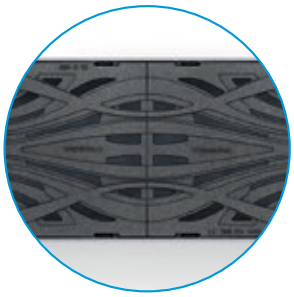
Mesh width: 30 x 30 mm





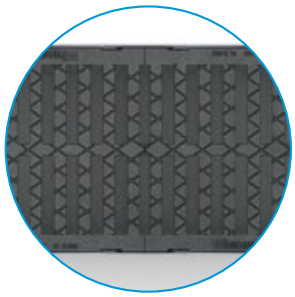
Mesh grating, galvanised

Mesh width: 30 x 10 mm



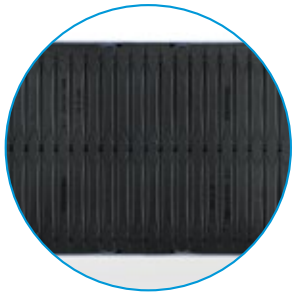
Ductile iron design grating METROPOLIS

Grating options
FASERFIX KS 300



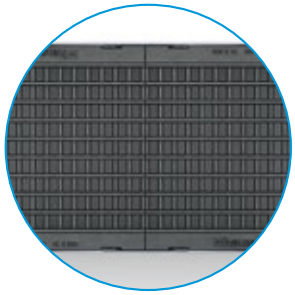
Ductile iron gratings

Slot width: 2 x 140 x 18 mm



G-TEC Ductile iron grating, KTL

Slot width: 2 x 141 x 9 mm



GUGI-Ductile iron mesh gratings

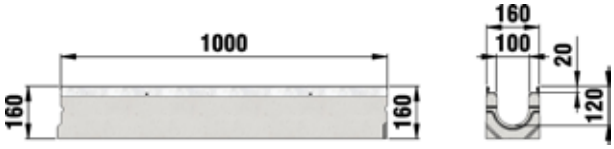
Mesh width: 15 x 25 mm

FASERFIX®KS 100

Channels

FASERFIX®KS 100 up to load class F 900

Type 01, 1,0 m



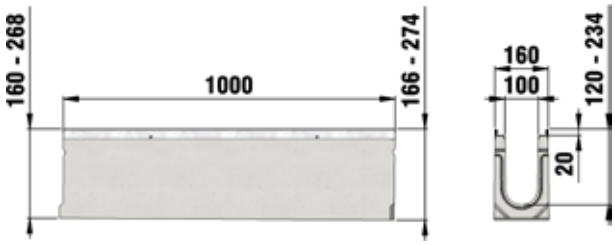
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01, 1,0 m	1000	160	160	88	32,96	8000	8200
Type 0105, 0,5 m	500	160	160	88	16,51	8049	8249
Type 01L with hole, DN/OD 110, 1,0 m*	1000	160	160	88	32,20	8045	8245
Type 05, 1,0 m	1000	160	184	113	36,31	8041	8241
Type 05L with hole, DN/OD 110, 1,0 m*	1000	160	184	113	35,37	8035	8235
Type 010, 1,0 m	1000	160	214	143	40,21	8042	8242
Type 01005, 0,5 m	500	160	214	143	21,50	8050	-
Type 010L with hole, DN/OD 110, 1,0 m*	1000	160	214	143	39,00	8046	-
Type 015, 1,0 m	1000	160	244	173	45,34	8043	8243
Type 015L with hole, DN/OD 110, 1,0 m*	1000	160	244	173	45,00	8036	-
Type 020, 1,0 m	1000	160	274	206	49,00	8044	8244
Type 020L with hole, DN/OD 110, 1,0 m*	1000	160	274	206	48,00	8037	-
Type 80 flat channel, 1,0 m	1000	160	80	34	15,98	1106	1706
Type 100 flat channel, 1,0 m	1000	160	100	54	19,23	1108	1708
Type 80L with hole, DN/OD 110*	1000	160	80	34	15,33	1137	-
Type 100L with hole, DN/OD 110, 1,0 m*	1000	160	100	54	18,58	1138	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Position of the opening to the bottom of the channel. 100 mm from the centre of the hole (DN/OD 110) to the end of the channel.**

FASERFIX®KS 100

FASERFIX®KS 100 with built-in fall 0.6 %, **up to load class F 900**

Type 1, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 1, 1,0 m	1000	160	160 - 166	89	33,03	8001	8201
Type 2, 1,0 m	1000	160	166 - 172	95	34,09	8002	8202
Type 3, 1,0 m	1000	160	172 - 178	101	34,68	8003	8203
Type 4, 1,0 m	1000	160	178 - 184	107	35,61	8004	8204
Type 5, 1,0 m	1000	160	184 - 190	113	36,77	8005	8205
Type 6, 1,0 m	1000	160	190 - 196	119	37,16	8006	8206
Type 7, 1,0 m	1000	160	196 - 202	125	37,90	8007	8207
Type 8, 1,0 m	1000	160	202 - 208	131	38,91	8008	8208
Type 9, 1,0 m	1000	160	208 - 214	137	39,46	8009	8209
Type 10, 1,0 m	1000	160	214 - 220	143	39,99	8010	8210
Type 11, 1,0 m	1000	160	220 - 226	149	42,21	8011	8211
Type 12, 1,0 m	1000	160	226 - 232	155	43,47	8012	8212
Type 13, 1,0 m	1000	160	232 - 238	161	43,99	8013	8213
Type 14, 1,0 m	1000	160	238 - 244	167	44,98	8014	8214
Type 15, 1,0 m	1000	160	244 - 250	173	45,00	8015	8215
Type 16, 1,0 m	1000	160	250 - 256	179	45,48	8016	8216
Type 17, 1,0 m	1000	160	256 - 262	185	46,80	8017	8217
Type 18, 1,0 m	1000	160	262 - 268	191	47,67	8018	8218
Type 19, 1,0 m	1000	160	268 - 274	197	48,00	8019	8219

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

FASERFIX®KS 100

Gratings

FASERFIX®KS 100, class A 15

Slotted grating
SW 10 mm, 1,0 m

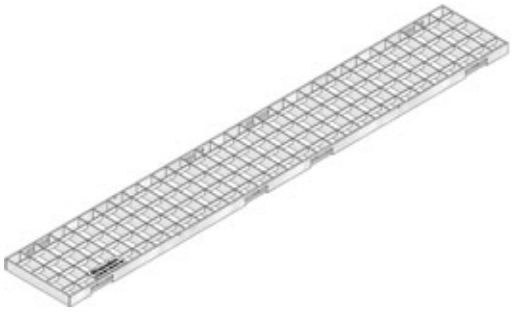
Longitudinal slot grating,
SW 10 mm, stainless steel,
1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating SW 10 mm, 1,0 m	1000	149	20	278	2,75	8161	8163
Slotted grating SW 10 mm, 0,5 m	500	149	20	278	1,30	8162	8164
Longitudinal slot grating, SW 10 mm, stainless steel, 1,0 m	1000	149	20	-	5,94	-	8590
Longitudinal slot grating, SW 10 mm, stainless steel, 0,5 m	500	149	20	-	2,98	-	8591

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

FASERFIX®KS 100, class B 125

GUGI mesh grating
MW 15/25 mm, black,
made of high-quality PA-GF
(Polyamide), 0,5 m



Mesh grating
MW 30/30 mm, galvanised,
1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI mesh grating MW 15/25 mm, black, made of high-quality PA-GF (Polyamide), 0,5 m	500	149	20	426	0,90	8099
Mesh grating MW 30/10 mm, galvanised, 1,0 m	1000	149	20	1322	4,00	8151
Mesh grating MW 30/10 mm, galvanised, 0,5 m	500	149	20	1306	2,00	8152
Mesh grating MW 30/30 mm, galvanised, 1,0 m	1000	149	20	878	3,00	8077
Mesh grating MW 30/30 mm, galvanised, 0,5 m	500	149	20	869	1,50	8078

FASERFIX®KS 100

FASERFIX®KS 100, class C 250

Ductile iron grating
SW 6 mm, black, 0,5 m

FIBRETEC design slotted grating
SW 9 mm, in the colour Black,
0,5 m

Mesh grating
MW 30/10 mm, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Ductile iron grating SW 14 mm, black, 0,5 m	500	149	20	462	3,41	28064	-
Ductile iron grating, SW 14 mm, black, locked, KTL-coated, 0,5 m	500	149	20	462	3,30	8864	-
Ductile iron grating SW 6 mm, black, 0,5 m	500	149	20	280	3,60	28068	-
Ductile iron grating SW 6 mm, black, locked, KTL-coated, 0,5 m	500	149	20	280	3,60	8868	-
Ductile iron grating SW 100/6 mm, galvanised, 0,5 m	500	149	20	280	3,60	29868	-
Ductile iron grating SW 100/14 mm, galvanised, 0,5 m	500	149	20	462	3,41	29864	-
Longitudinal ductile iron grating SW 9 mm, galvanised, 0,5 m	500	149	20	528	3,65	8876	-
Longitudinal ductile iron grating SW 9 mm, black, KTL-coated, locked, 0,5 m	500	149	20	528	3,65	8875	-
FIBRETEC design slotted grating SW 9 mm, in the colour Black, 0,5 m	500	149	20	372	1,05	8098	-
FIBRETEC design slotted grating SW 9 mm, in the colour Sand, 0,5 m	500	149	20	372	1,05	8100	-
FIBRETEC design slotted grating SW 9 mm, in the colour Fern, 0,5 m	500	149	20	372	1,05	8102	-
FIBRETEC design slotted grating SW 9 mm, in the colour Stone, 0,5 m	500	149	20	372	1,05	8101	-
Mesh grating MW 30/10 mm, 1,0 m	1000	149	20	1285	5,00	8154	28577
Mesh grating MW 30/10 mm, 0,5 m	500	149	20	1268	2,60	8155	28578
Mesh grating MW 30/30 mm, galvanised, 1,0 m	1000	149	20	828	4,40	28073	-
Mesh grating MW 30/30 mm, galvanised, 0,5 m	500	149	20	819	2,20	28074	-
Reinforced slotted grating SW 10 mm, 1,0 m	1000	149	20	281	5,28	28167	28169
Reinforced slotted grating SW 10 mm, 0,5 m	500	149	20	281	2,60	28168	28170
Perforated grating diam. 6 mm, 1,0 m	1000	149	20	191	5,30	28171	28177
Perforated grating diam. 6 mm, 0,5 m	500	149	20	191	2,60	28172	28178

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

FASERFIX®KS 100

Gratings

FASERFIX®KS 100, class D 400*

Ductile iron design grating, METROPOLIS, black, locked, KTL-coated, 0,5 m

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 14 mm, black, 0,5 m	500	149	20	462	3,66	28063
Ductile iron grating SW 14 mm, black, locked, KTL-coated, 0,5 m	500	149	20	462	3,70	8863
Ductile iron design grating, METROPOLIS, black, locked, KTL-coated, 0,5 m	500	149	20	165	5,10	8871
Ductile iron longitudinal grating SW 9 mm, black, locked, KTL-coated, 0,5 m	500	149	20	528	4,15	8869
Ductile iron longitudinal grating SW 9 mm, galvanised, 0,5 m	500	149	20	528	4,15	8870
Ductile iron grating SW 100/14 mm, galvanised, 0,5 m	500	149	20	462	3,66	29863

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

FASERFIX®KS 100

FASERFIX®KS 100, class E 600

Ductile iron grating
SW 6 mm, black, 0,5 m

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Ductile iron grating SW 14 mm, black, 0,5 m	500	149	20	462	4,14	28062	-
Ductile iron grating SW 6 mm, black, 0,5 m	500	149	20	280	4,14	28066	-
Ductile iron grating SW 14 mm, black, locked, KTL-coated, 0,5 m	500	149	20	462	4,20	8862	-
Ductile iron grating SW 6 mm, black, locked, KTL-coated, 0,5 m	500	149	20	280	4,00	8866	-
GUGI Ductile iron mesh grating, MW 15/25 mm, black, 0,5 m	500	149	20	426	4,50	28079	-
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, 0,5 m	500	149	20	426	4,50	8879	-
GUGI Ductile iron mesh grating, MW 15/25 mm, galvanised, 0,5 m	500	149	20	426	4,60	28080	-
Mesh grating MW 11/30 mm, 1,0 m	1000	149	20	695	11,00	28071	28571
Mesh grating MW 11/30 mm, 0,5 m	500	149	20	695	5,85	28072	28572

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®KS 100, class F 900

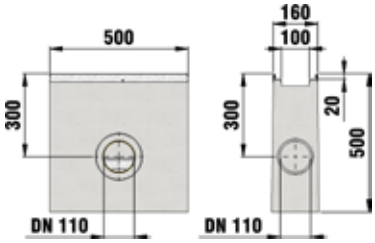
Ductile iron grating
100/14 mm, black, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating 100/14 mm, black, 0,5 m	500	149	20	462	4,50	28061

FASERFIX®KS 100

Accessories

Trash boxes



Trash box
with composite bucket

Trash box
with galvanised bucket

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with composite bucket	500	160	500	47,73	8052	8252
Trash box with galvanised bucket	500	160	500	50,00	8053	-

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

FASERFIX®KS 100

End caps

End cap closed, type 01

End cap closed, type 010

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 01	-	160	160	0,37	8081	8181
End cap closed, type 010	-	160	214	0,50	8082	8182
End cap closed, type 020	-	160	274	0,64	8083	8183
End cap closed, type 80	-	160	80	0,19	1181	1681
End cap closed, type 100F	-	160	100	0,24	1183	1683
End cap with horizontal PVC-U pipe outlet DN/OD 110, type 010	-	160	214	0,59	8087	8186
End cap with horizontal PVC-U pipe outlet DN/OD 110, type 020	-	160	274	0,73	8089	8187

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

FASERFIX®KS 100

Accessories

Further accessories

Foul air trap, horizontal, with rubber sealing, black

Foul air trap DN/OD 110, outside

Mud bucket vertical made of modified composite for outlet DN/OD 110, black

Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, horizontal, with rubber sealing, black	-	-	-	0,11	966
Foul air trap DN/OD 110, with hole	-	-	103	0,24	964
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
PVC-U pipe outlet, DN/OD 110	-	-	-	0,20	903
PVC mud bucket for trash box, 50 cm	420	85	152	0,25	940
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Locking handle for SUPER KS 100 ductile iron grating	28	117	35	0,11	98210
Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	1,60	705

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

FASERFIX®KS 100

Factory-made services

Cutting to length of NW 100

Mitre cuts NW 100 (price per cut, two cuts necessary)

Cutting for gradient for all nominal widths

Drilling of connecting holes DN/OD 75

Factory-made insertion of PVC-U union connectors DN/OD 110 (incl. drilling)

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

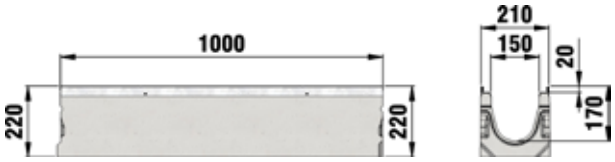
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 100	-	-	-	-	990
Mitre cuts NW 100 (price per cut, two cuts necessary)	-	-	-	-	995
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 75	-	-	-	-	971
Drilling of connecting holes DN/OD 110	-	-	-	-	972
Factory-made insertion of modified PP union connectors DN/OD 75 (incl. drilling)	-	-	-	-	981
Factory-made insertion of PVC-U union connectors DN/OD 110 (incl. drilling)	-	-	-	-	982
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®KS 150

Channels

FASERFIX®KS 150 up to class F 900

Type 01, 1,0 m



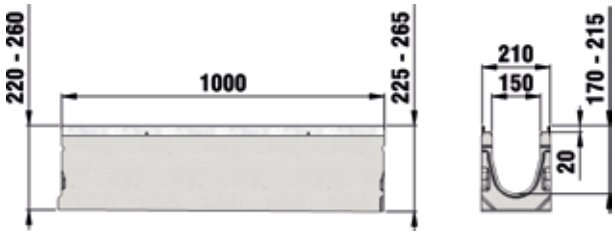
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01, 1,0 m	1000	210	220	185	54,47	11000	11500
Type 01L, with hole, DN/OD 160, 1,0 m*	1000	210	220	185	54,00	11035	-
Type 0105, 0,5 m	500	210	220	185	27,00	11049	-
Type 010, 1,0 m	1000	210	265	245	60,17	11042	11542
Type 010L with hole, DN/OD 160, 1,0 m*	1000	210	265	245	61,00	11036	-
Type 015, 1,0 m	1000	210	290	282	66,00	11043	-
Type 020, 1,0 m	1000	210	315	312	69,55	11044	11544
Type 020L with opening, DN/OD 160, 1,0 m*	1000	210	315	312	68,00	11037	-
Type 110, 1,0 m**	1000	210	110	74	28,27	2121	-
Type 150, 1,0 m**	1000	210	150	134	33,58	2122	-
Type 200, 1,0 m**	1000	210	200	208	40,02	2123	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Position of the opening to the bottom of the channel. 130 mm from the centre of the hole (DN/OD 160) to the end of the channel.**
**** Suitable for the use in parking areas.**

FASERFIX®KS 150

FASERFIX®KS 150 with built-in fall 0.5 %, **up to load class F 900**

Type 1, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 1, 1,0 m	1000	210	220 - 225	186	54,59	11001	11501
Type 2, 1,0 m	1000	210	225 - 230	196	55,00	11002	11502
Type 3, 1,0 m	1000	210	230 - 235	203	55,86	11003	11503
Type 4, 1,0 m	1000	210	235 - 240	211	56,69	11004	11504
Type 5, 1,0 m	1000	210	240 - 245	218	57,15	11005	11505
Type 6, 1,0 m	1000	210	245 - 250	226	58,00	11006	11506
Type 7, 1,0 m	1000	210	250 - 255	233	58,39	11007	11507
Type 8, 1,0 m	1000	210	255 - 260	241	59,00	11008	11508
Type 9, 1,0 m	1000	210	260 - 265	248	59,76	11009	11509

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

FASERFIX®KS 150

Gratings

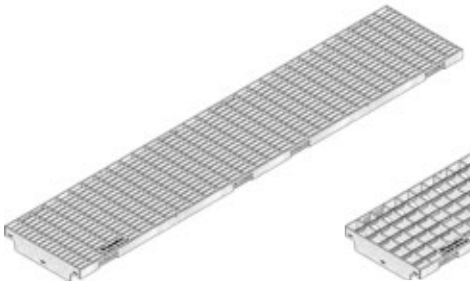
FASERFIX®KS 150, class B 125

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
FIBRETEC design slotted grating SW 9 mm, in the colour black, 0,5 m	500	199	20	500	2,00	11098

FASERFIX®KS 150, class C 250

Ductile iron grating,
SW 20 mm, black, 0,5 m



Mesh grating
MW 30/10 mm, 1,0 m

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Ductile iron grating, SW 20 mm, black, 0,5 m	500	199	20	631	4,53	11064	-
Ductile iron grating, SW 20 mm, black, KTL-coated, locked, 0,5 m	500	199	20	631	5,30	11264	-
Ductile iron grating SW 132/20 mm, galvanised, 0,5 m	500	199	20	631	4,53	11364	-
Mesh grating MW 30/10 mm, 1,0 m	1000	199	20	1105	7,20	11075	11575
Mesh grating MW 30/10 mm, 0,5 m	500	199	20	1105	3,70	11076	11576
Mesh grating MW 30/30 mm, galvanised, 1,0 m	1000	199	20	1240	5,90	11073	-
Mesh grating MW 30/30 mm, galvanised, 0,5 m	500	199	20	1240	3,40	11074	-
NEW FIBRETEC design slotted grating SW 9 mm, in the colour black, 0,5 m	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

FASERFIX®KS 150, class D 400*

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

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 18 mm, black, 0,5 m	500	199	20	553	5,30	11463
Ductile iron grating SW 18 mm, black, KTL-coated, locked, 0,5 m	500	199	20	553	5,30	11563
Longitudinal ductile iron grating SW 9 mm, black, KTL-coated, locked, 0,5 m	500	199	20	740	6,93	11269
Longitudinal ductile iron grating SW 9 mm, galvanised, 0,5 m	500	199	20	740	6,93	11369

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

FASERFIX®KS 150, class E 600

Ductile iron grating,
SW 9 mm, black, 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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Ductile iron grating, SW 9 mm, black, 0,5 m	500	199	20	524	6,67	11066	-
Ductile iron grating, SW 9 mm, black, KTL-coated, locked, 0,5 m	500	199	20	524	6,70	11266	-
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, 0,5 m	500	199	20	716	7,41	11068	-
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, 0,5 m	500	199	20	716	7,80	11268	-
Mesh grating MW 11/30 mm, 1,0 m	1000	199	20	981	18,80	11071	11571
Mesh grating MW 11/30 mm, 0,5 m	500	199	20	981	9,70	11072	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®KS 150

Gratings

FASERFIX®KS 150, class F 900

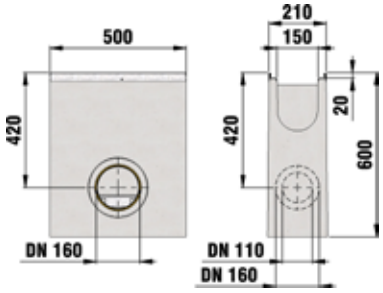
Ductile iron grating,
SW 20 mm, black, 0,5 m

Ductile iron grating,
SW 20 mm, black, KTL-coated,
locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 20 mm, black, 0,5 m	500	199	20	626	7,80	11061
Ductile iron grating, SW 20 mm, black, KTL-coated, locked, 0,5 m	500	199	20	626	7,80	11261

Accessories

Trash boxes



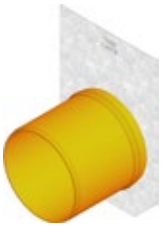
Trash box
with galvanised bucket

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised bucket	500	210	600	65,32	11052	11552

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

End caps

End cap closed,
type 010



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
type 020

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 01	-	210	220	0,67	11081	11581
End cap closed, type 010	-	210	265	0,83	11082	11582
End cap closed, type 020	-	210	315	0,92	11083	11583
End cap closed, type 110	-	210	110	0,36	2181	2681
End cap closed, type 150	-	210	150	0,48	2182	-
End cap closed, type 200	-	210	200	0,60	2183	2683
End cap with horizontal PVC-U pipe outlet DN/OD 160, type 01 - 010	-	210	265	0,97	11087	11587
End cap with horizontal PVC-U pipe outlet DN/OD 160, type 020	-	210	315	1,14	11088	11588

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

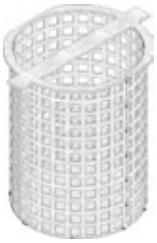
FASERFIX®KS 150

Accessories

Further accessories

Foul air trap
DN/OD 160

PVC-U pipe connection element
DN/OD 160



Mud bucket for outlet
DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap DN/OD 160	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
Locking handle for all ductile iron gratings	162	27	-	0,10	98260
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	136018

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

FASERFIX®KS 150

Factory-made services

Cutting to length of NW 150

Cutting for gradient for all nominal widths

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

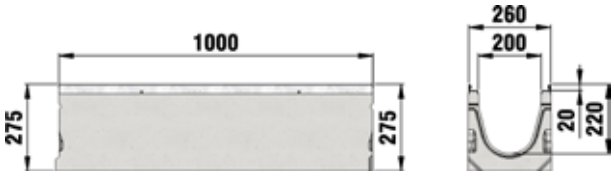
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 150	-	-	-	-	991
Mitre cuts NW 150 (price per cut, two cuts necessary)	-	-	-	-	996
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 160	-	-	-	-	973
Factory-made insertion of PVC-U union connectors DN/OD 160 (incl. drilling)	-	-	-	-	983
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®KS 200

Channels

FASERFIX®KS 200 up to load class F 900

Type 01, 1,0 m



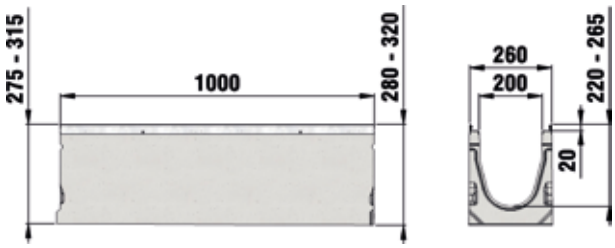
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01, 1,0 m	1000	260	275	319	80,00	12000	12500
Type 0105, 0,5 m	500	260	275	319	39,00	12049	12549
Type 01L with hole, DN/OD 160, 1,0 m*	1000	260	275	319	75,50	12035	-
Type 010, 1,0 m	1000	260	320	409	84,92	12042	12542
Type 010L with hole, DN/OD 160, 1,0 m*	1000	260	320	409	88,00	12036	-
Type 015, 1,0 m	1000	260	345	462.38	89,00	12043	-
Type 020, 1,0 m	1000	260	370	509	94,53	12044	12544
Type 020L with hole, DN/OD 160, 1,0 m*	1000	260	370	509	95,00	12037	-
Type 110, 1,0 m**	1000	260	110	89	32,53	3121	-
Type 150, 1,0 m**	1000	260	150	148	38,48	3122	-
Type 200, 1,0 m**	1000	260	200	246	45,50	3123	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Position of the opening to the bottom of the channel. 130 mm from the centre of the hole (DN/OD 160) to the end of the channel.**
**** Suitable for the use in parking areas.**

FASERFIX®KS 200

FASERFIX®KS 200 with built-in fall 0.5 %, **up to load class F 900**

Type 2, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 1, 1,0 m	1000	260	275 - 280	324	79,00	12001	12501
Type 2, 1,0 m	1000	260	280 - 285	334	79,72	12002	12502
Type 3, 1,0 m	1000	260	285 - 290	344	80,51	12003	12503
Type 4, 1,0 m	1000	260	290 - 295	354	80,78	12004	12504
Type 5, 1,0 m	1000	260	295 - 300	364	81,94	12005	12505
Type 6, 1,0 m	1000	260	300 - 305	374	82,39	12006	12506
Type 7, 1,0 m	1000	260	305 - 310	384	82,50	12007	12507
Type 8, 1,0 m	1000	260	310 - 315	394	83,50	12008	12508
Type 9, 1,0 m	1000	260	315 - 320	404	86,00	12009	12509

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

FASERFIX®KS 200

Gratings

FASERFIX®KS 200, class B 125

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
FIBRETEC design slotted grating SW 9 mm, in the colour black, 0,5 m	500	249	20	656	2,11	12098

FASERFIX®KS 200, class C 250

Ductile iron grating
SW 20 mm, black, 0,5 m

Ductile iron grating
SW 20 mm, black, KTL-coated, locked, 0,5 m

Mesh grating
MW 30/10 mm, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Ductile iron grating SW 20 mm, black, 0,5 m	500	249	20	824	5,64	12064	-
Ductile iron grating SW 20 mm, black, KTL-coated, locked, 0,5 m	500	249	20	824	5,80	12264	-
Mesh grating MW 30/10 mm, 1,0 m	1000	249	20	1500	10,80	12075	12575
Mesh grating MW 30/10 mm, 1,0 m	500	249	20	1500	5,50	12076	12576
Mesh grating MW 30/30 mm, 1,0 m	1000	249	20	1681	9,20	12073	12573
Mesh grating MW 30/30 mm, 0,5 m	500	249	20	1681	4,60	12074	12574

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®KS 200

FASERFIX®KS 200, class D 400*

G-TEC Ductile iron grating
SW 9 mm, black, KTL-coated,
locked, 0,5 m

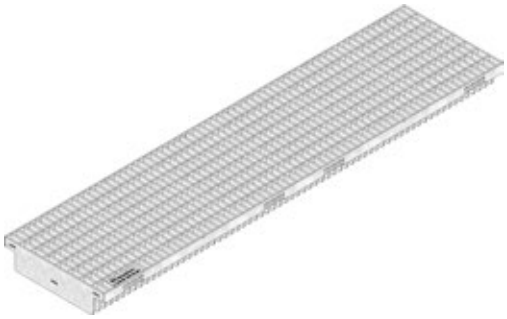
Ductile iron longitudinal grating
SW 9 mm, black, KTL-coated,
locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 18 mm, black, 0,5 m	500	249	20	724	6,83	12463
G-TEC Ductile iron grating SW 9 mm, black, KTL-coated, locked, 0,5 m	500	249	20	595	8,25	12266
Ductile iron grating SW 18 mm, black, KTL-coated, locked, 0,5 m	500	249	20	724	6,90	12763
Ductile iron design grating METROPOLIS, black, locked, KTL-coated, 0,5 m	500	249	20	279	10,70	12275
Ductile iron longitudinal grating SW 9 mm, black, KTL-coated, locked, 0,5 m	500	249	20	951	9,43	12269
Ductile iron longitudinal grating SW 9 mm, galvanised, 0,5 m	500	249	20	951	9,43	12369
G-TEC Ductile iron grating SW 2 x 85/9 mm, galvanised, 0,5 m	500	249	20	595	7,90	12366

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

FASERFIX®KS 200, class E 600

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



Mesh grating
MW 11/30 mm, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
GUGI-Ductile mesh grating MW 15/25 mm, black, 0,5 m	500	249	20	867	9,50	12068	-
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, 0,5 m	500	249	20	867	9,70	12268	-
Mesh grating MW 11/30 mm, 1,0 m	1000	249	20	1309	28,40	12071	12571
Mesh grating MW 11/30 mm, 0,5 m	500	249	20	1309	14,60	12072	12572

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

FASERFIX®KS 200

Gratings

FASERFIX®KS 200, class F 900

Ductile iron grating
SW 20 mm, black, 0,5 m

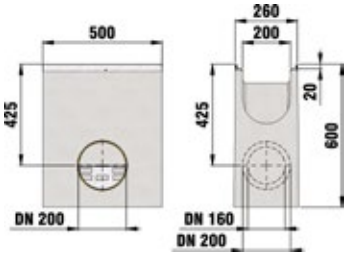
Ductile iron grating
SW 20 mm, black, KTL-coated, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, 0,5 m	500	249	20	823	10,35	12061
Ductile iron grating SW 20 mm, black, KTL-coated, locked, 0,5 m	500	249	20	823	10,35	12261

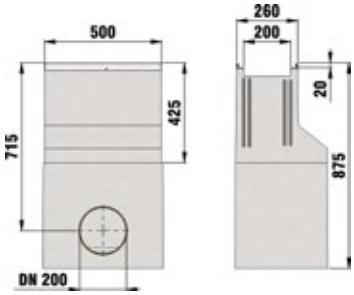
FASERFIX®KS 200

Accessories

Trash boxes



Trash box
with galvanised bucket



Trash box, 2-pieces,
with galvanised mud bucket

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised bucket	500	260	600	72,17	12052	12552
Trash box, 2-pieces, with galvanised mud bucket	500	260	875	177,00	12054	-

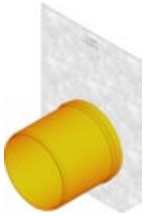
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

End caps

End cap closed,
FASERFIX KS type 01 /
RECYFIX PLUS type 020m /
RECYFIX STANDARD type 020

End cap closed,
type 010

End cap closed,
type 020



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
galvanised, type 020

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, FASERFIX KS type 01 / RECYFIX PLUS type 020 / RECYFIX STANDARD type 020	-	260	275	1,28	12081	12581
End cap closed, type 010	-	260	320	1,28	12082	12582
End cap closed, type 020	-	260	370	1,50	12083	12583
End cap, closed, type 110 F	-	260	110	0,43	3181	3681
End cap, closed, type 150 F	-	260	150	0,58	3182	3682
End cap, closed, type 200 F	-	260	200	0,78	3183	3683
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 01 - 010	-	260	320	1,49	12087	12587
End cap with horizontal PVC-U pipe outlet DN/OD 160, galvanised, type 020	-	260	370	1,66	12088	12588

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

FASERFIX®KS 200

Accessories

Further accessories

PVC-Connection
DN/OD 200

Mud bucket for outlet
DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
PVC-Connection DN/OD 200	-	-	-	0,80	907
Mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
Locking handle for FASERFIX SUPER KS 200	219	28	-	0,25	98221
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 200 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,62	136202

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

FASERFIX®KS 200

Factory-made services

Cutting to length
of NW 200

Cutting for gradient
for all nominal widths

Drilling of connecting holes
DN/OD 200

Factory-made insertion
of PVC-U union connectors
DN/OD 200

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

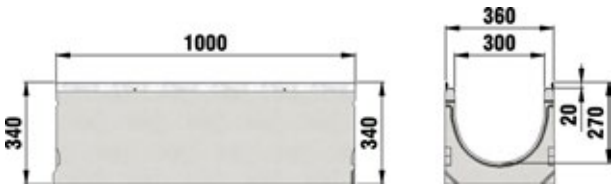
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 200	-	-	-	-	992
Mitre cuts NW 200 (price per cut, two cuts necessary)	-	-	-	-	997
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX®KS 300

Channels

FASERFIX®KS 300 up to load class E 600

Type 010, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	360	340	634	117,21	14040

FASERFIX®KS 300

Gratings

FASERFIX®KS 300, class D 400*

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

Ductile iron grating
SW 18 mm, black,
KTL-coated, locked, 0,5 m

G-TEC Ductile iron grating
SW 2 x 141/9 mm, black,
KTL-coated, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 18 mm, black, 0,5 m	500	349	20	1317	12,92	14463
Ductile iron grating SW 18 mm, black, KTL-coated, locked, 0,5 m	500	349	20	1317	12,50	14763
G-TEC Ductile iron grating SW 2 x 141/9 mm, black, KTL-coated, locked, 0,5 m	500	349	20	960	14,88	14266
G-TEC Ductile iron grating SW 2 x 141/9 mm, galvanised, 0,5 m	500	349	20	960	15,11	14366

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

FASERFIX®KS 300, class E 600

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

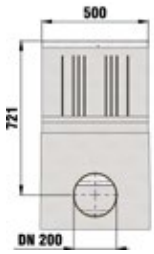
GUGI-Ductile iron mesh grating,
MW 15/25 mm, black, locked,
KTL-coated, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, 0,5 m	500	349	20	1196	18,12	14068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, 0,5 m	500	349	20	1196	18,15	14268

FASERFIX®KS 300

Accessories

Trash boxes



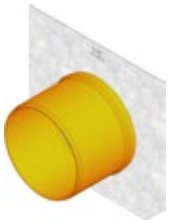
Trash box 2-parts
with galvanised mud bucket

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box 2-parts with galvanised mud bucket	500	360	881	178,50	14054	14554

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

End caps

End cap closed,
type 340



End cap with PVC-U pipe outlet
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 340	-	360	340	1,75	14085
End cap with PVC-U pipe outlet DN/OD 200	-	360	340	2,20	14087

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

FASERFIX®KS 300

Further accessories

Extension part

PVC-Connection
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Extension part	510	390	400	81,66	4054
PVC-Connection DN/OD 200	-	-	-	0,80	907
Clip-locking handle for SUPER KS 300, galvanised, complete with bolts	-	-	-	0,28	98270
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 300 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	3,66	136242

**** Consumption for channel type 010: approx. 150 ml per joint.**

Factory-made services

Cutting to length
of NW 300

Mitre cuts NW 300
(price per cut, two cuts
necessary)

Cutting for gradient
for all nominal widths

Drilling of connecting holes
DN/OD 200

Factory-made insertion
of PVC-U union connectors
DN/OD 200

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

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 300	-	-	-	-	993
Mitre cuts NW 300 (price per cut, two cuts necessary)	-	-	-	-	998
Cutting for gradient for all nominal widths	-	-	-	-	890
Drilling of connecting holes DN/OD 200	-	-	-	-	974
Factory-made insertion of PVC-U union connectors DN/OD 200	-	-	-	-	984
Drilling of connection holes DN/OD 315	-	-	-	-	978
Factory-made insertion of PVC-U union connectors DN/OD 315 (incl. driling)	-	-	-	-	979
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704

FASERFIX BIG SLG

Linear drainage with ductile iron channel edge plates for highest wear resistance.

hauraton

Logistics area at the JTI high-bay warehouse in Trier, Germany

FASERFIX BIG SLG

Linear drainage with protection of concrete casing for maximum wear resistance.

1 Requirements

Drainage channels for heavy traffic areas have to

- withstand strong dynamic forces and extreme loads
- be particularly stable and long-lasting
- be resistant to environmental effects (frost, heat, water)
- comply with DIN EN 1433

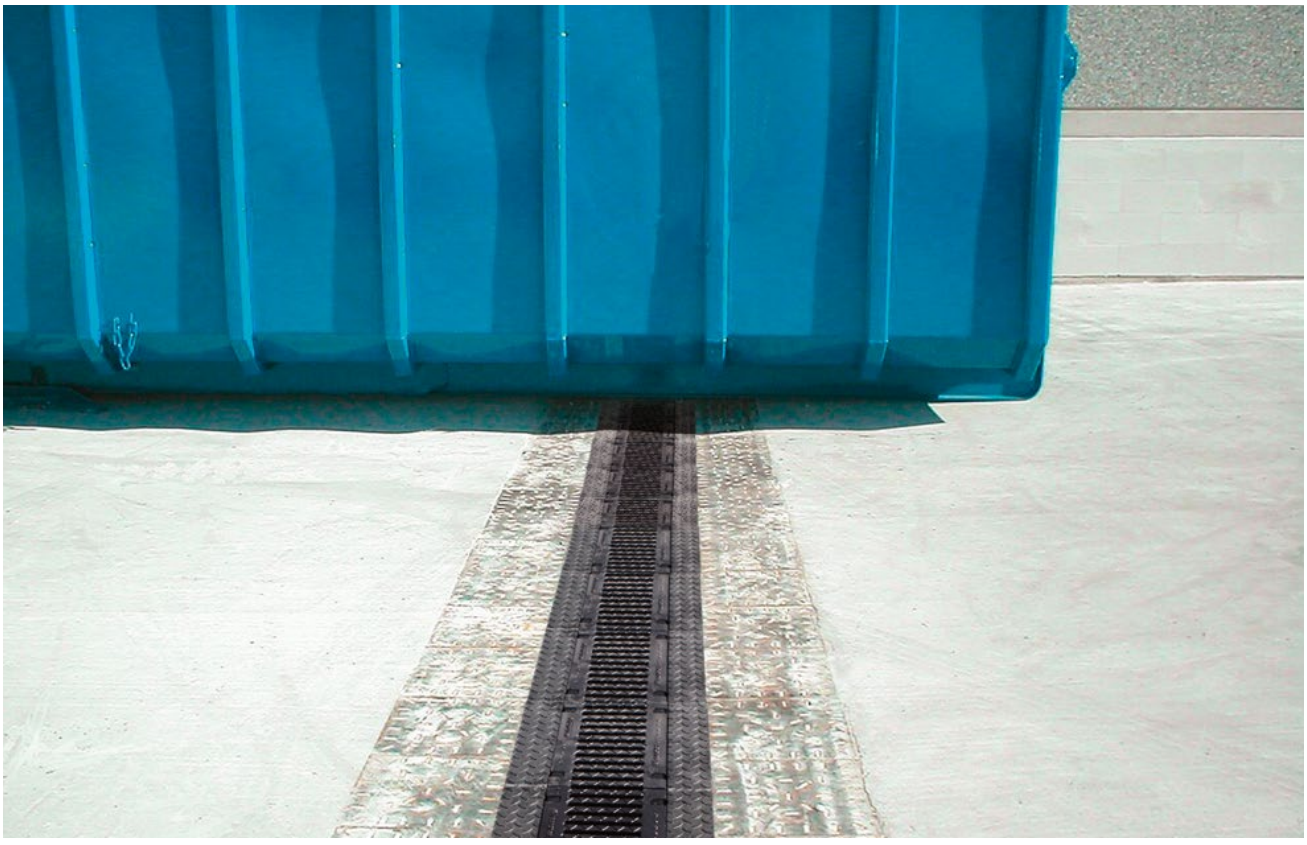
2 Application areas

- ports
- warehouse yards
- industrial road surfaces
- container stations
- airports

3 Solution

For this reason, FASERFIX BIG SLG channels are suitable for the drainage of heavy traffic areas:

- solid channels made of fibre-reinforced concrete
- angle housing and protection of concrete casing consist of durable, KTL-coated ductile iron
- load classes D 400, E 600 and F 900 to DIN EN 1433
- gratings are held very securely in the angle housing due to 40 mm insertion depth
- nominal widths from 100 to 300 mm
- gratings are securely fixed with 8 bolt fixings per metre



Very strong hence able to withstand heavy point loads

Robust and wear-resistant ductile iron protection of concrete casing

Maximum traffic safety due to 8-fold bolted grating

Easy to install due to integrated concrete casing

Long service life also when exposed to heavy loads as in airports

YOUR BENEFITS WITH **FASERFIX** BIG SLG

ANGLE HOUSINGS

- corrosion protection with KTL coating
- 40 mm inlaying depth = extremely secure
- 8-fold bolt connection
- 8-fold shearing protection

= QUALITY ASSURED

ROBUST CONCRETE STRETCHER

- KTL-coated ductile iron surface
- integrated concrete stretcher saves formwork during installation
- sits firmly in position
- channels can be used immediately after installation

= QUALITY ASSURED / COST SAVINGS

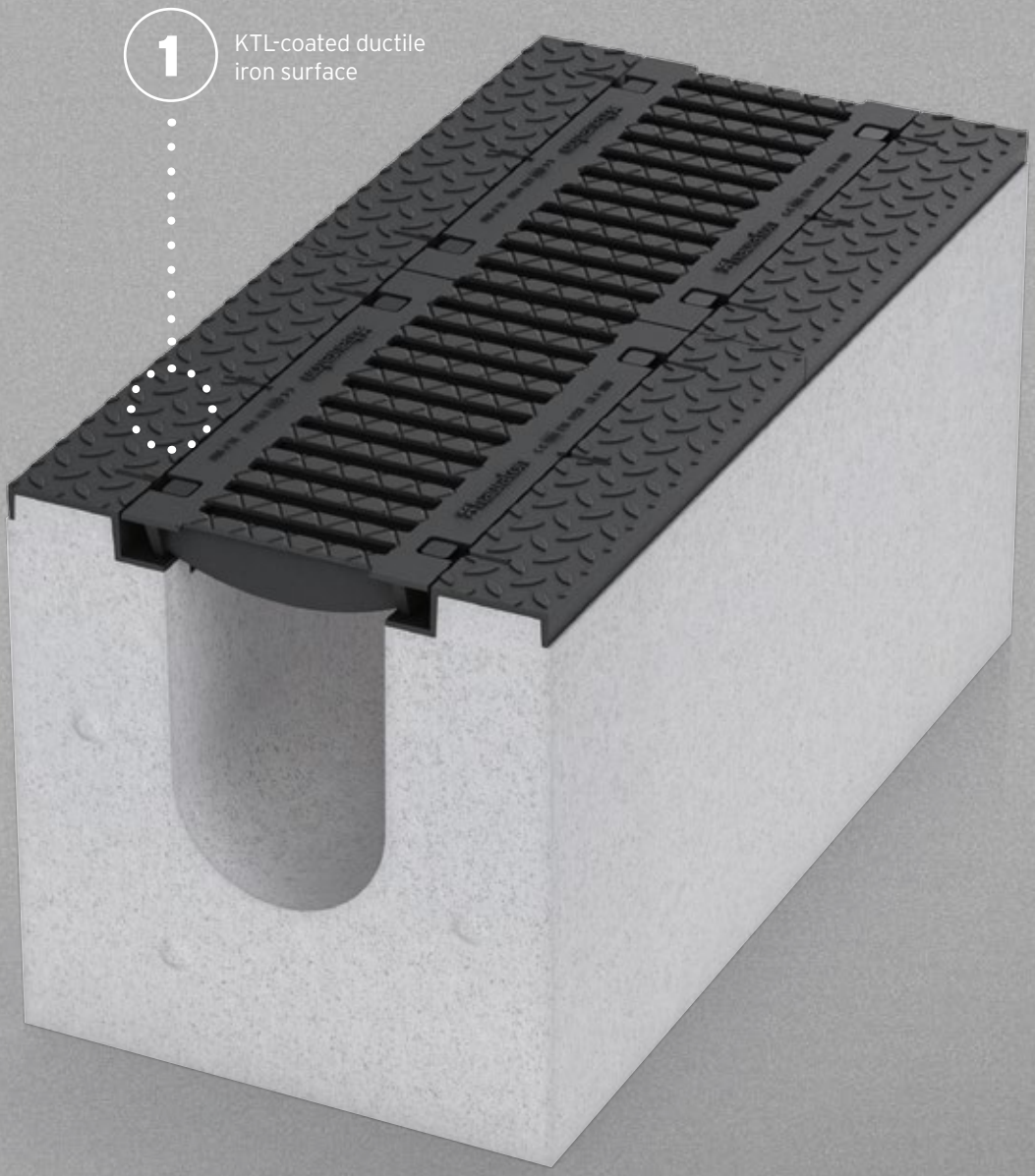
HIGH-QUALITY MATERIAL

- made of fibre-reinforced concrete
- fire resistance class A1 (non-flammable) according to DIN 4102
- intrinsically robust channel body, installation without grating

= QUALITY ASSURED

IDEAL FOR ...

strong, dynamic loads and extreme loads in heavy traffic areas
such as storage areas, container sites and industrial and port facilities.



FASERFIX BIG SLG

Linear drainage with protection of concrete casing for maximum wear resistance.

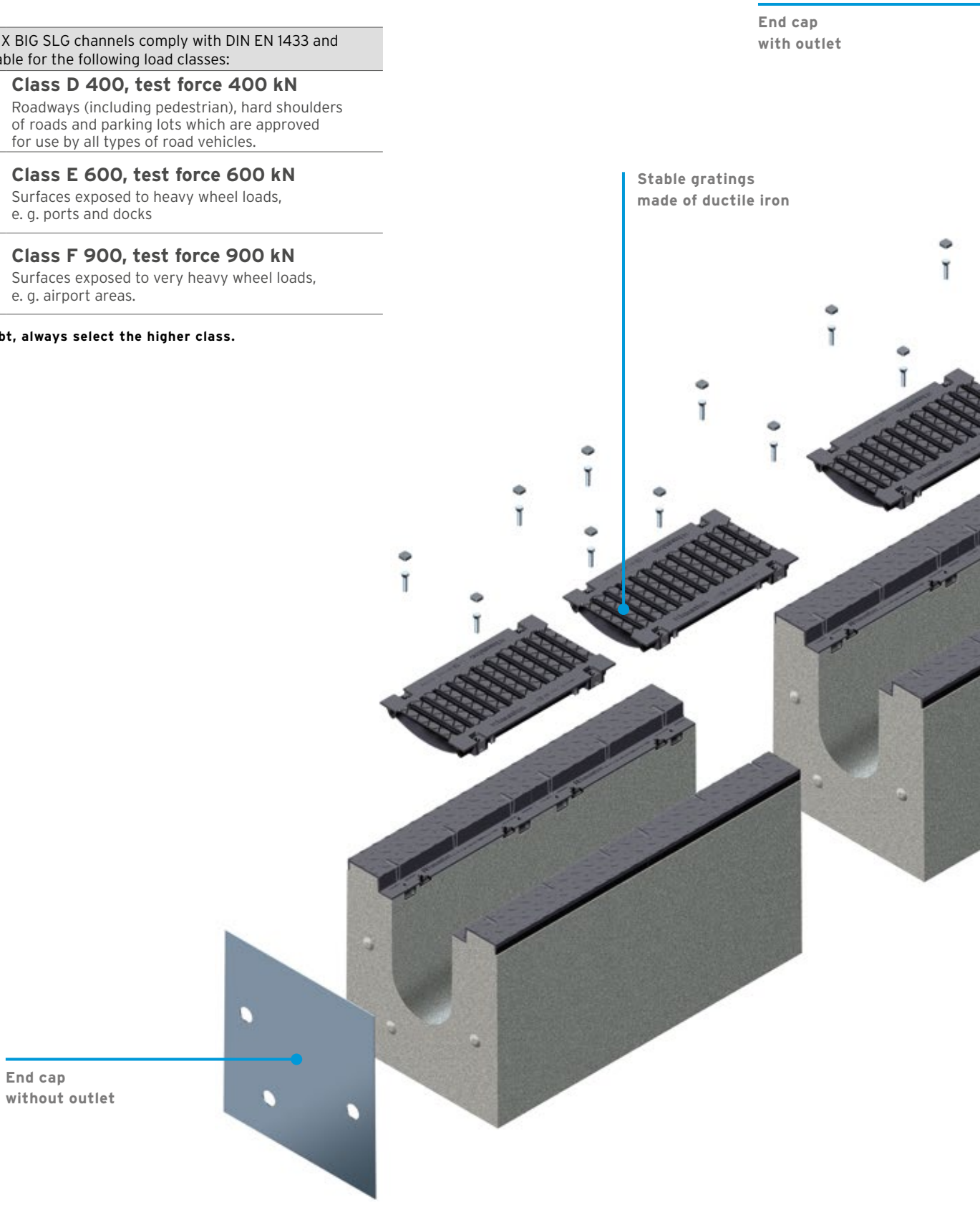
FASERFIX BIG SLG channels comply with DIN EN 1433 and are suitable for the following load classes:

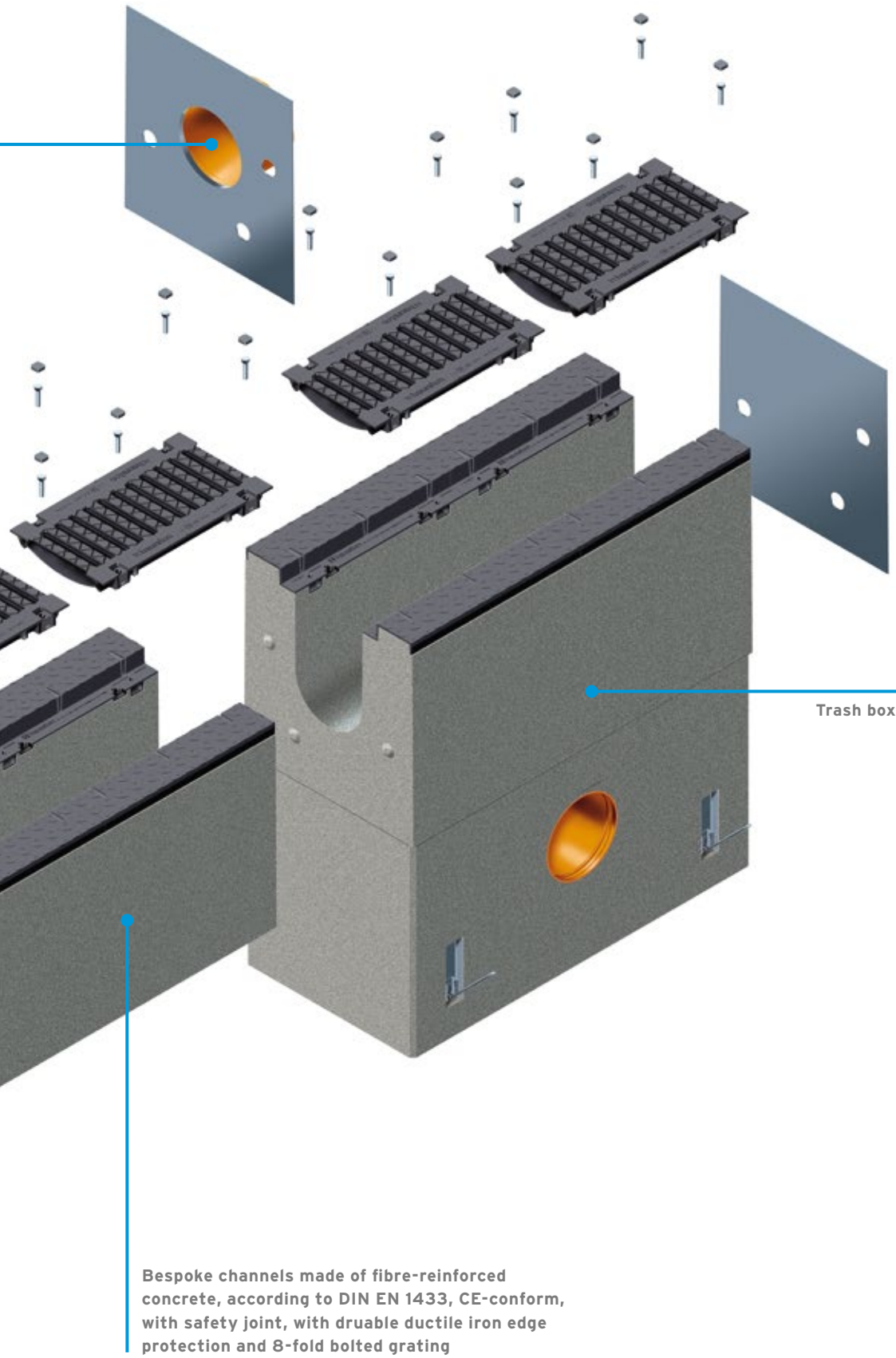
Class D 400, test force 400 kN
Roadways (including pedestrian), hard shoulders of roads and parking lots which are approved for use by all types of road vehicles.

Class E 600, test force 600 kN
Surfaces exposed to heavy wheel loads, e. g. ports and docks

Class F 900, test force 900 kN
Surfaces exposed to very heavy wheel loads, e. g. airport areas.

If in doubt, always select the higher class.





Trash box with integrated PVC-U socket and galvanised mud bucket

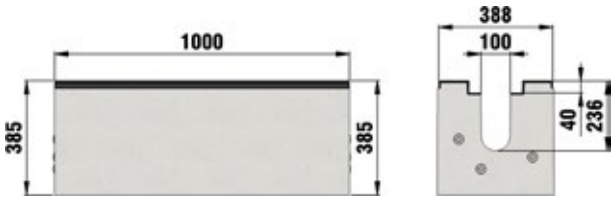
Bespoke channels made of fibre-reinforced concrete, according to DIN EN 1433, CE-conform, with safety joint, with druable ductile iron edge protection and 8-fold bolted grating

FASERFIX®BIG SLG 100

Channels

FASERFIX®BIG SLG 100, up to class F 900

Type 020, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 020, 1,0 m	1000	388	385	181	306,00	1480

Bolting required - see further accessories

FASERFIX®BIG SLG 100

Gratings

FASERFIX®BIG SLG 100, class D 400*

Ductile iron grating,
SW 94/16 mm, black,
with plastic caps, 0,5 m

Ductile iron grating,
SW 94/16 mm, black, KTL-coated,
with plastic cap, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 94/16 mm, black, with plastic caps, 0,5 m	500	179	40	360	5,90	6063
Ductile iron grating, SW 94/16 mm, black, KTL-coated, with plastic cap, locked, 0,5 m	500	179	40	360	6,10	6663

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

FASERFIX®BIG SLG 100, class F 900

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

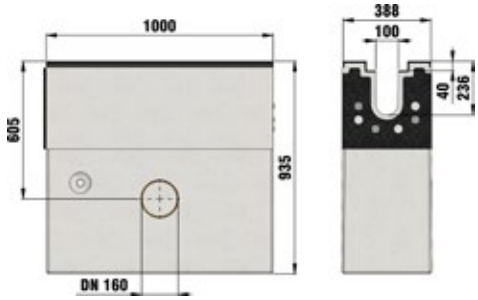
GUGI Ductile iron mesh grating,
MW 15/25 mm, black, locked,
KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, with plastic caps, 0,5 m	500	179	40	494	7,60	6060
GUGI Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	179	40	494	7,60	6660

FASERFIX®BIG SLG 100

Accessories

Trash boxes

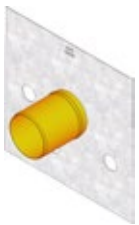


Trash box element,
2-parts, with PVC-U socket
and galvanised mud bucket, 1,0 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element, 2-parts, with PVC-U socket and galvanised mud bucket, 1,0 m	1000	388	935	778,00	1857

End caps

End cap closed,
type 020



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

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 020	-	388	383	2,27	1886	1883
End cap with horizontal PVC-U pipe outlet DN/OD 110, type 020	-	388	383	2,40	1899	1896

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

FASERFIX®BIG SLG 100

Further accessories

Foul air trap DN/OD 110, outside

Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
PVC-U pipe outlet, DN/OD 110	-	-	-	0,20	903
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	1,60	705
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708

**** Consumption of sealing material: approx. 99 ml per joint.**

Factory-made services

Cutting to length

Mitre cuts (price per cut, two cuts necessary)

Drilling of connection holes

Inserting of PVC union connectors

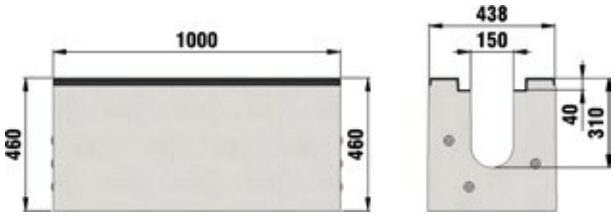
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length	-	-	-	-	891
Mitre cuts (price per cut, two cuts necessary)	-	-	-	-	892
Drilling of connection holes	-	-	-	-	893
Inserting of PVC union connectors	-	-	-	-	894

FASERFIX®BIG SLG 150

Channels

FASERFIX®BIG SLG 150, up to class F 900

Type 020, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 020, 1,0 m	1000	438	460	383	370,00	2480

Bolting required - see further accessories

Gratings

FASERFIX®BIG SLG 150, class D 400*

Ductile iron grating SW 150/18 mm, black, with plastic caps, 0,5 m

Ductile iron grating SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 150/18 mm, black, with plastic caps, 0,5 m	500	229	40	624	7,45	2463
Ductile iron grating SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	229	40	624	7,45	2483

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

FASERFIX®BIG SLG 150

Gratings

FASERFIX®BIG SLG 150, class E 600

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, with plastic caps, 0,5 m	500	229	40	628	11,50	2068

FASERFIX®BIG SLG 150, class F 900

Ductile iron grating
SW 20 mm, black,
with plastic caps, 0,5 m

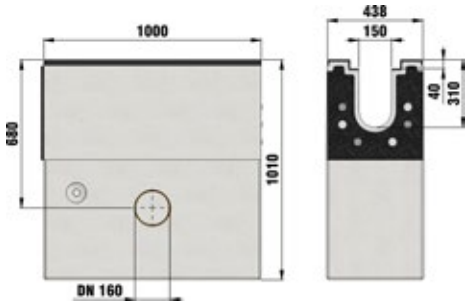
Ductile iron grating
SW 20 mm, black, KTL-coated,
with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	229	40	710	9,90	2061
Ductile iron grating SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	229	40	710	9,90	2861

FASERFIX®BIG SLG 150

Accessories

Trash boxes

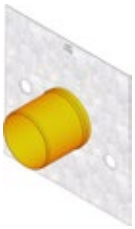


Trash box element,
2-parts, with PVC-U socket
and galvanised mud bucket

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element, 2-parts, with PVC-U socket and galvanised mud bucket	1000	438	1010	904,00	2957

End caps

End cap closed,
type 020



End cap with horizontal
PVC-U pipe outlet DN/OD 160,
type 020

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 020	-	438	458	3,06	2986	2983
End cap with horizontal PVC-U pipe outlet DN/OD 160, type 020	-	438	458	3,30	2999	2996

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

FASERFIX®BIG SLG 150

Further accessories

Foul air trap
DN/OD 160

PVC-U pipe connection element DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
Foul air trap DN/OD 160	584	160	439	2,00	960
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black	-	-	-	1,30	6891
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	136018
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708

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

Factory-made services

Cutting to length

Mitre cuts (price per cut, two cuts necessary)

Drilling of connection holes

Inserting of PVC union connectors

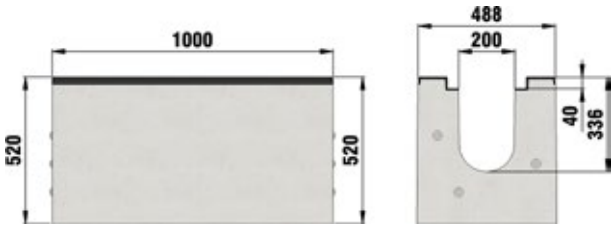
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length	-	-	-	-	891
Mitre cuts (price per cut, two cuts necessary)	-	-	-	-	892
Drilling of connection holes	-	-	-	-	893
Inserting of PVC union connectors	-	-	-	-	894

FASERFIX®BIG SLG 200

Channels

FASERFIX®BIG SLG 200, up to class F 900

Type 020, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 020, 1,0 m	1000	488	520	552	458,00	3480

Bolting required - see further accessories

FASERFIX®BIG SLG 200

Gratings

FASERFIX®BIG SLG 200, class D 400*

Ductile iron grating,
SW 170/18 mm, black,
with plastic caps, 0,5 m

Ductile iron grating,
SW 170/18 mm, black,
KTL-coated, with plastic caps,
locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 170/18 mm, black, with plastic caps, 0,5 m	500	279	40	732	9,26	3463
Ductile iron grating, SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	732	9,26	3483

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

FASERFIX®BIG SLG 200, class E 600

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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps, 0,5 m	500	279	40	818	12,65	3068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	279	40	818	12,60	3868

FASERFIX®BIG SLG 200

Gratings

FASERFIX®BIG SLG 200, **class F 900**

Ductile iron grating
SW 20 mm, black,
with plastic caps, 0,5 m

Ductile iron grating,
SW 20 mm, black,
KTL-coated, with plastic caps,
locked, 0,5 m

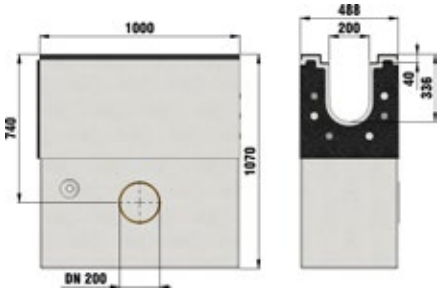
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	279	40	833	13,60	3061
Ductile iron grating, SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	833	13,70	3861

FASERFIX®BIG SLG 200

Accessories

Trash boxes

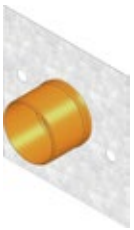
Trash box element,
2-parts, with PVC-U socket
and galvanised mud bucket



	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element, 2-parts, with PVC-U socket and galvanised mud bucket	1000	488	1070	1052,00	3957

End caps

End cap closed,
type 020



End cap with horizontal
PVC-U pipe outlet DN/OD 200,
type 020

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 020	-	488	518	4,00	3986	3983
End cap with horizontal PVC-U pipe outlet DN/OD 200, type 020	-	488	518	4,30	3999	3996

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

FASERFIX®BIG SLG 200

Accessories

Further accessories

PVC-Connection
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 200 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,62	136202
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708

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

FASERFIX®BIG SLG 200

Factory-made services

Cutting to length

Mitre cuts (price per cut, two cuts necessary)

Drilling of connection holes

Inserting of PVC union connectors

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length	-	-	-	-	891
Mitre cuts (price per cut, two cuts necessary)	-	-	-	-	892
Drilling of connection holes	-	-	-	-	893
Inserting of PVC union connectors	-	-	-	-	894

FASERFIX®BIG SLG 300

Channels

FASERFIX®BIG SLG 300, up to class F 900

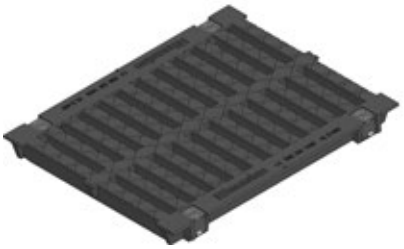
Type 010, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	588	600	1020	552,00	4670

Bolting required - see further accessories

Gratings

FASERFIX®BIG SLG 300, class D 400*



Ductile iron grating,
SW 2 x 136/18 mm, black,
with plastic caps, 0,5 m

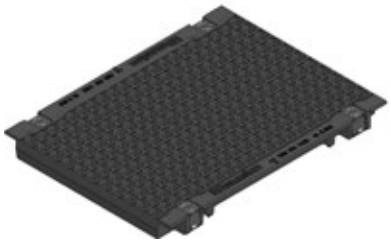
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/18 mm, black, with plastic caps, 0,5 m	500	377	40	1150	16,90	4563
Ductile iron grating, SW 2 x 136/18 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1150	16,90	4543

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

FASERFIX®BIG SLG 300

Gratings

FASERFIX®BIG SLG 300, class E 600



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

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps, 0,5 m	500	377	40	1172	21,80	4068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1172	22,50	4868

FASERFIX®BIG SLG 300, class F 900

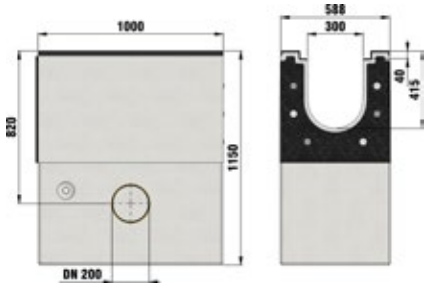
Ductile iron grating,
SW 2 x 136/20 mm, black,
with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/20 mm, black, with plastic caps, 0,5 m	500	377	40	1334	23,20	4061
Ductile iron grating, SW 2 x 136/20 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1334	23,20	4861

FASERFIX®BIG SLG 300

Accessories

Trash boxes

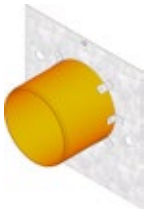


Trash box element,
2-parts, with PVC-U socket
and galvanised mud bucket, 1,0 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box element, 2-parts, with PVC-U socket and galvanised mud bucket, 1,0 m	1000	588	1150	1275,00	4957

End caps

End cap closed,
type 010



End cap with horizontal
PVC-U pipe outlet DN/OD 315,
type 010

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, type 010	-	588	600	5,46	4986	4982
End cap with horizontal PVC-U pipe outlet DN/OD 315, type 010	-	588	600	6,60	4998	4995

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

FASERFIX®BIG SLG 300

Accessories

Further accessories

PVC-Connection
DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Caps for hexagon bolts	24	24	7	-	91100
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Installation aid NW 300 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	3,66	136242
Philipp Spherical Head Lifting Clutch, 80-HKD-025, for laying trash boxes, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	708

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

Factory-made services

Cutting to length

Mitre cuts (price per cut, two cuts necessary)

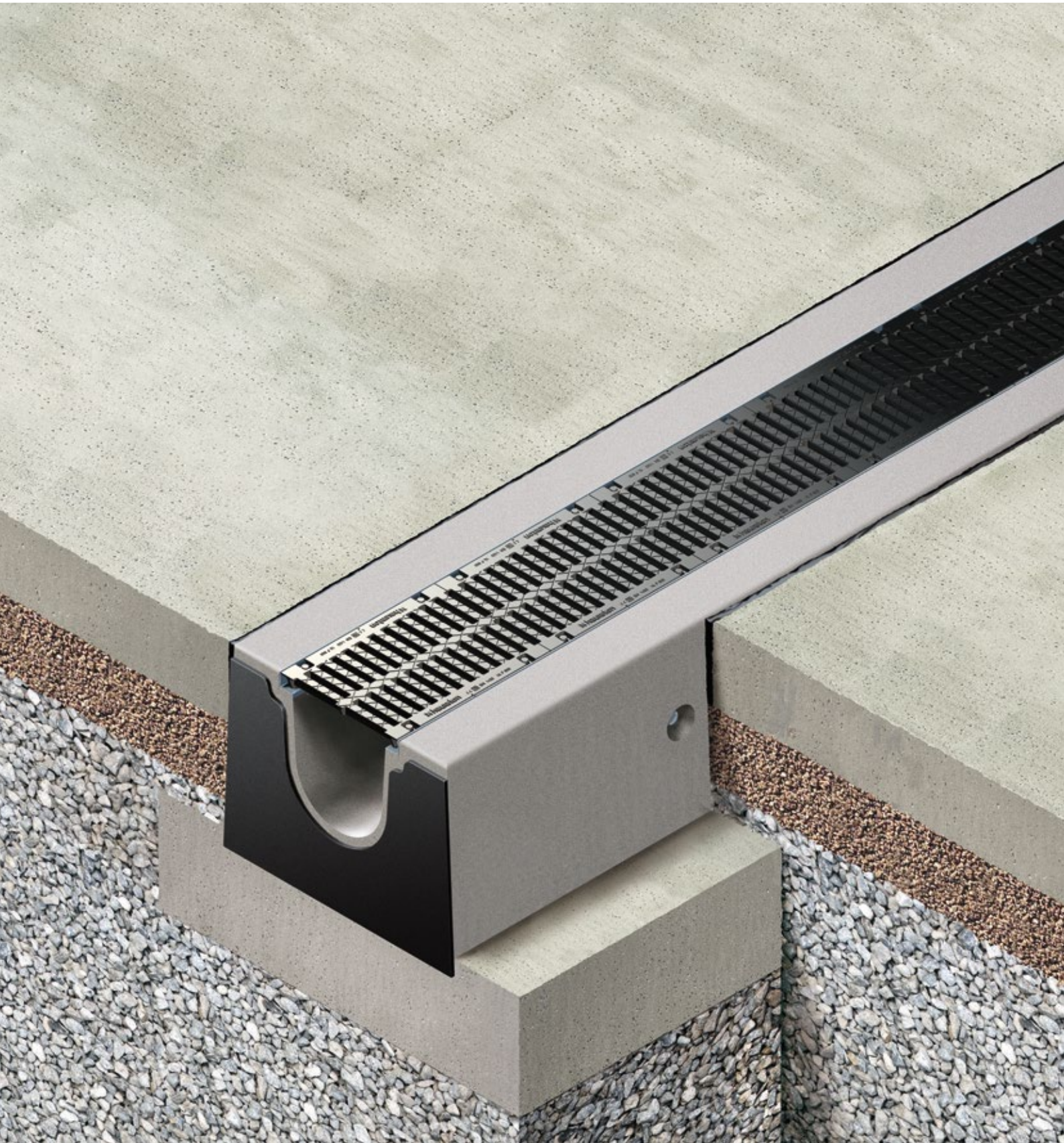
Drilling of connection holes

Inserting of PVC union connectors

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length	-	-	-	-	891
Mitre cuts (price per cut, two cuts necessary)	-	-	-	-	892
Drilling of connection holes	-	-	-	-	893
Inserting of PVC union connectors	-	-	-	-	894

FASERFIX BIG BLS NEW

Drainage channels as prefabricated reinforced concrete elements.



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Fraport Airport in Frankfurt am Main, Germany

FASERFIX BIG BLS NEW

Safe channel technology and tested statics for the heaviest loads.

Lufthansa Cargo relies on surface drainage FASERFIX BIG BLS

Whether cars, insulin or panda bears - Lufthansa Cargo transports cargo of all kinds, sizes and weights. The hub at Frankfurt Airport is the carrier's hub in the heart of Europe and its gateway to the world. The logistics areas here have to withstand the highest loads, especially when transferring heavy and complex goods.

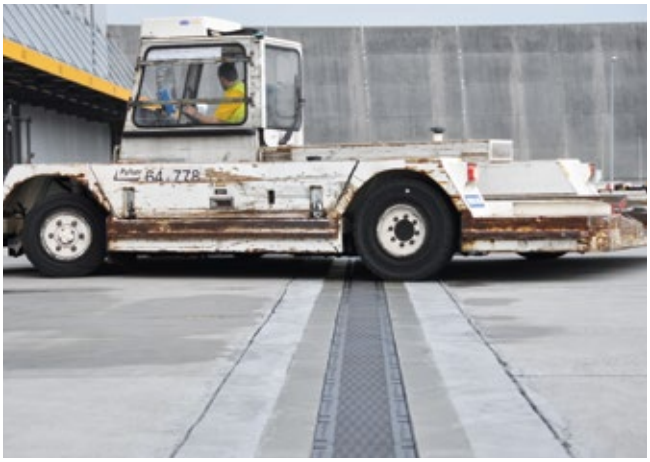
During the renovation of a main area on the Lufthansa Cargo site in Frankfurt, specially statically tested FASERFIX BIG BLS channels were installed. For this project, load-bearing capacity and thus the safety of the drainage system to be installed had the highest priority.

Shear forces and extreme weight demand special solutions

The areas are frequented hundreds of times every day by loading vehicles, baggage tractors, trucks and other heavy goods vehicles. Extremely high loads are at work here. But even the shearing forces of wheel-turning vehicles must be absorbed without damage by all components on the open surfaces. Older drainage systems, for example, are susceptible to damage. The FASERFIX BIG BLS channels have been specially developed for such requirements. Their specific precast reinforced concrete parts are specially tested for maximum load applications and equipped with a static verification. „This is increasingly required, especially for complex cases and construction projects," knows Werner Gal, Project Manager at HAURATON. „FASERFIX BIG BLS channels are additionally statically calculated and tested in order to provide our customers with the necessary safety. In this way, the reliable drainage and function of the channels are guaranteed for many years."

Static safety for channel and foundation

The existing channel runs on the logistics area at Lufthansa Cargo in Frankfurt were renovated. This means that the relevant area was first cut out with deep parallel cuts. This created the necessary space and working area for the new drainage channel and its foundation. In such construction phases, all elements must be statically safe - and these must be ensured not only for the channel, but also for the surrounding foundation. The drainage specialists from HAURATON have already statically calculated basic foundation constructions for various demanding applications and were therefore able to provide expert support to the client and contractor at Frankfurt Airport.



The entire channel construction of the FASERFIX BIG BLS is designed for maximum loads, statically calculated and tested. The engineering office Wolfgang Beckers has taken a close look at the complete range of channels. „The channels are statically tested for various load situations not only according to DIN EN 1433, but also according to the characteristic value of the Load Classification Number (LCN). This is customary in airport construction and according to the characteristic value of the design aircraft (BFZ) generally used in Germany with regard to stability and serviceability," emphasises Wolfgang Beckers.

FASERFIX BIG BLS
Long overall lengths ensure effective installation

For the construction project, a fast and smooth implementation was necessary and with the construction specialist Boskan, an experienced project partner was at work. „According to the reinforcement plan, the foundation was prepared and constructed," says Managing Director Dusan Boskan, recalling the implementation work: „The four-metre long channel elements could then be set quickly. Since we could only manage such a construction site with heavy equipment anyway, these lengths were a real advantage. We could install quickly and effectively and the quality was assured."

In this application, the channel foundation had to be raised up to the top edge of the site. As planned in HAURATON's project-specific reinforcement plan, the necessary connecting reinforcement was connected to the ground foundation. The complete sealing of all space joints of the foundation sections and channel elements completed the work.

Same grid as standard concrete operating areas

The FASERFIX BIG BLS range includes channels with lengths of four and five metres. The combination of a four-metre-long element and a one-metre-long trash box harmonises this with the usual grid dimension of five metres. This is usual for flight or other concrete operating surfaces, for example in logistics. It is particularly advantageous for joint formation, as the joint grid of the concrete surfaces corresponds to that of the drainage elements. The expansion joints are thus continued without interruption. In addition, the construction height of the channels corresponds to the usual construction design of 40 centimetres of concrete slab and 20 centimetres of hydraulically bound base course (HGT). Each channel element is equipped with an expansion joint plate at the end of the channel.

FASERFIX BIG BLS NEW

Areas of application of aircraft operating areas.

Load approach: according to LCN 20 with an authorised axle load of 20 tons.

Type 030 - 035

Lufthansa Cargo at Frankfurt Airport

Load approach: according to LCN 50 with an authorised axle load of 46 tons. (747 - 400)

Type 040-045

B 747 - 400

Sofia Airport, de-icing area

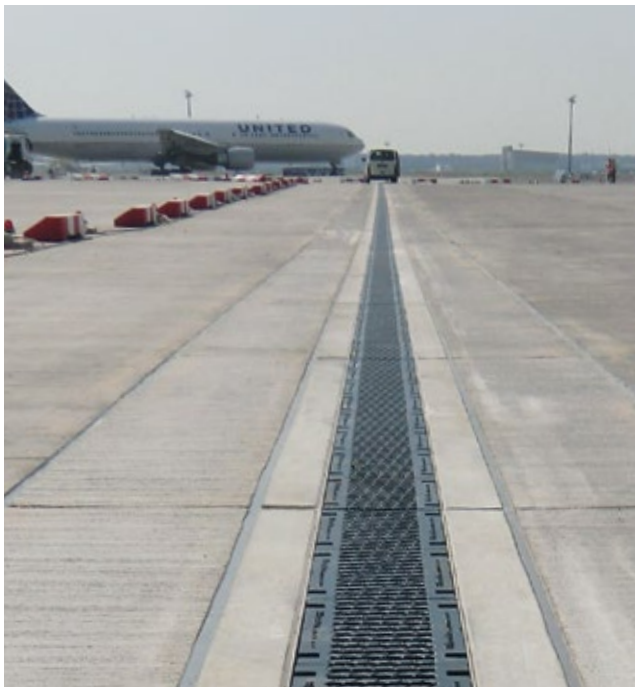
Airport in Budapest

Load approach: according to LCN 70
with an authorised axle load of 64.66 tons. (A 350 - 900)

Type 060 - 065

A 350 - 900

Frankfurt Airport



YOUR BENEFITS WITH **FASERFIX** BIG BLS

PRECAST REINFORCED CONCRETE PART TYPE I ACCORDING TO EN 1433

- steel-reinforced concrete stretcher already integrated
- no formwork, reinforcement and in-situ concrete work required
- savings of 2 m sealing joint per metre of channel

= COST SAVINGS

COMPONENT IN 4 AND 5 M LENGTHS

- high installation performance
- 75 % or 80 % fewer channel butt joints (compared to 1 metre construction length)
- 75 - 80 % fewer maintenance joints in the WHG area

= COST SAVINGS / TIME SAVINGS

LOAD BEARING CAPACITY ACCORDING TO INTERNATIONAL PARAMETERS

- LCN airport categorisation according to ICAO
- up to 100 tons axle load
- navigable for large aircrafts and reach stackers

= LONGEVITY / QUALITY ASSURED

CERTIFICATES AND APPROVALS

- tested statics for channel construction and foundation design
- no additional external statics required
- with general building authority approval (abZ) by DIBt (Z-74.4-141)
- with ASR performance test
- practical and realistic installation situations

= COST SAVINGS / QUALITY ASSURED

MATERIAL: LIQUID-TIGHT CONCRETE

- FDE = liquid-tight concrete according to penetration test
- highest load capacity due to strength class C 60/75
- exposure class: XF40, XC4, XM2, XD3, XA2

= PERFORMANCE ASSURED / QUALITY ASSURED

FACTORY-MADE PE EXPANSION JOINT INSERT

- full-surface absorption of thermal stresses in longitudinal direction
- expansion joint insert provides a stop for the PE round cord of the sealing joint
- less consumption of sealing material

= COST SAVINGS / PERFORMANCE ASSURED

ANGLE HOUSINGS

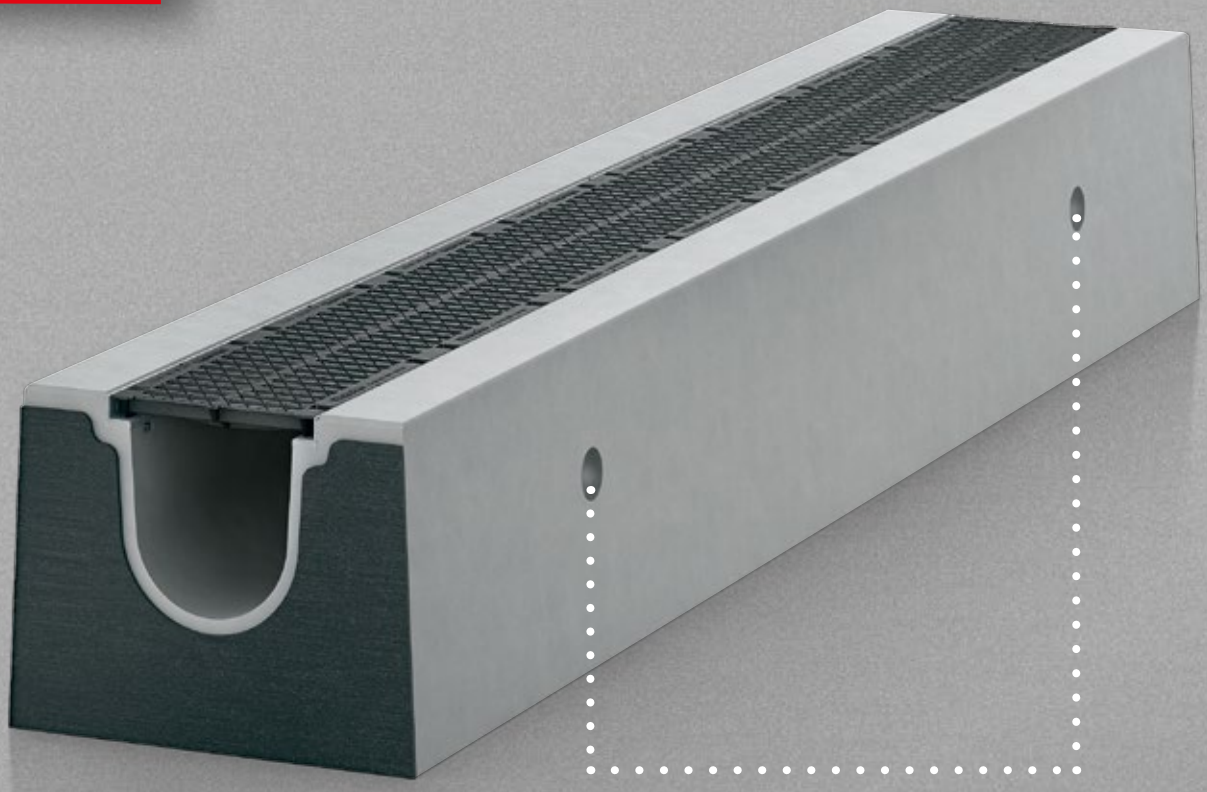
- 16-fold fixing possibility of the grating per metre (incl. 8-fold with optional screw connection)
- 40 mm insertion depth

= QUALITY ASSURED

IDEAL FOR ...

eextreme loads in basically all concrete pavement areas, LAU facilities, air traffic areas, port facilities/container terminals, container terminals with „ReachStacker“ loads, industrial and logistics areas, tunnel drainage, heavy-duty traffic areas also in combination with precipitation water treatment.

NEW



1 attached transport anchors

FASERFIX BIG BLS NEW

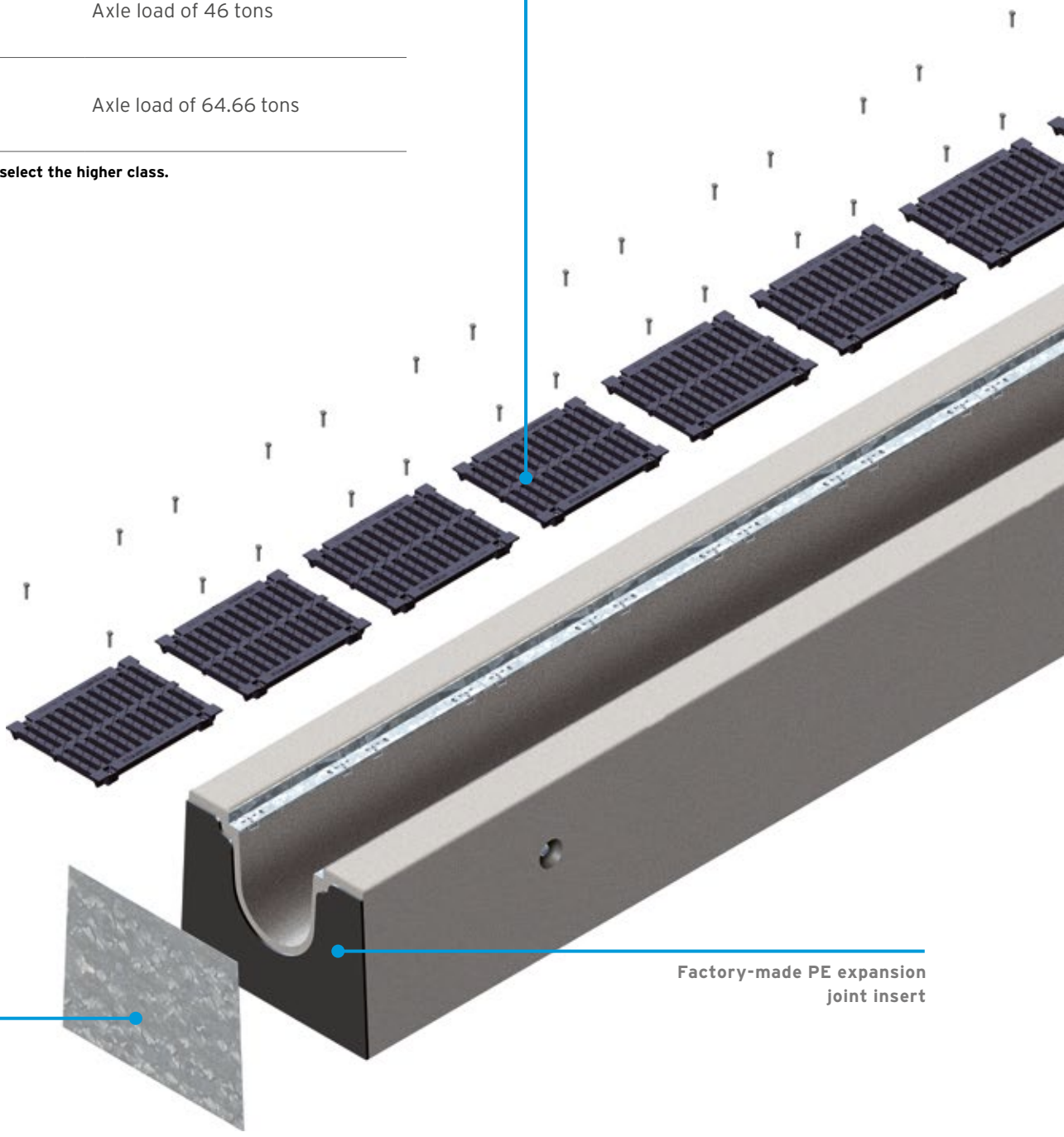
Drainage channels as prefabricated reinforced concrete parts.

FASERFIX BIG BLS channels comply with DIN EN 1433 and are suitable for the following load classes:

	Axle load of 20 tons
B 747 - 400	Axle load of 46 tons
A 350 - 900	Axle load of 64.66 tons

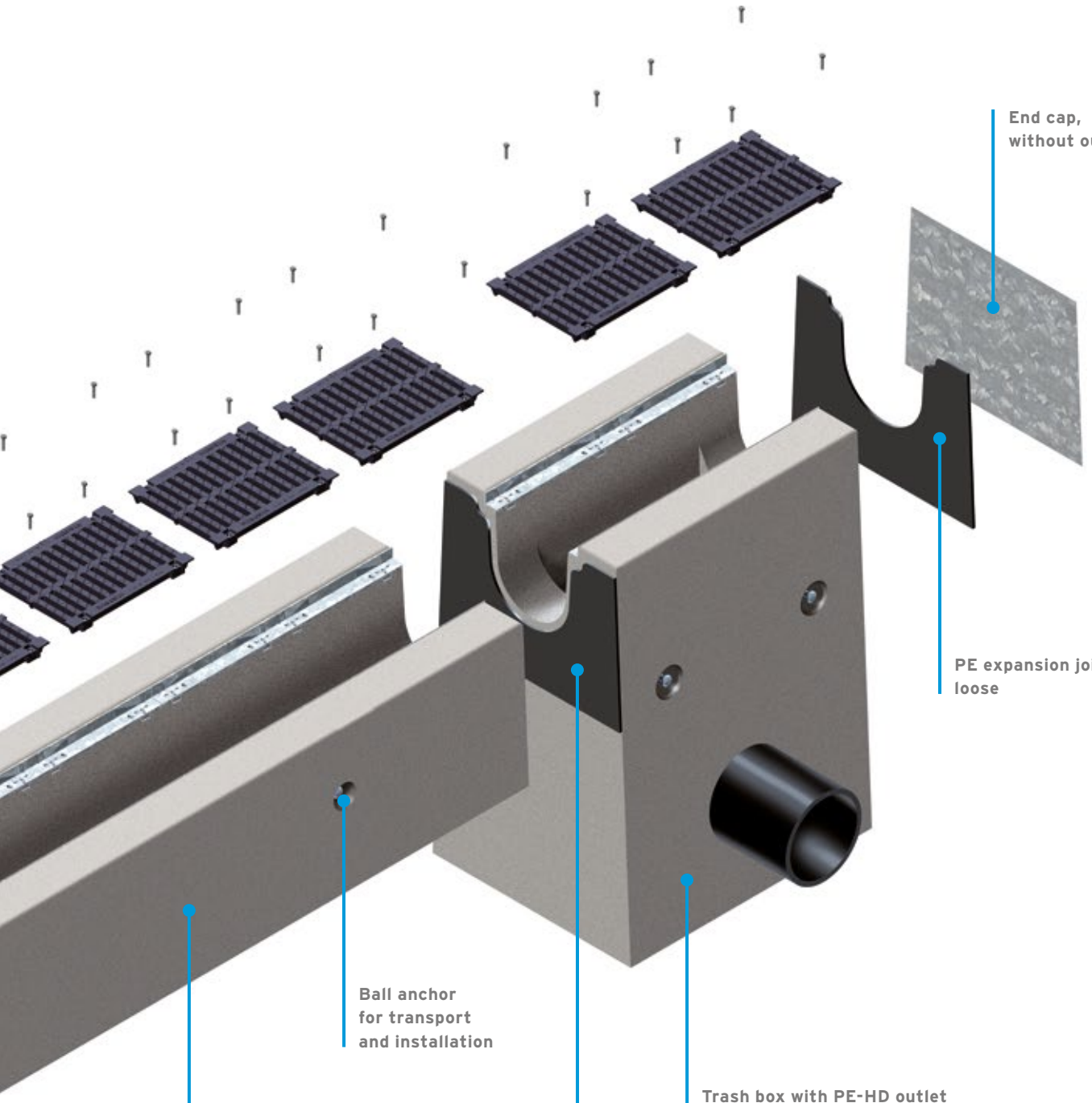
If in doubt, always select the higher class.

Grating made of ductile iron EN GJS-500-7, black, with 8-fold boltless locking system SIDE-LOCK and additional 8-fold fastening possibility per metre



Factory-made PE expansion joint insert

End cap, without outlet


End cap,
without outlet
PE expansion joint insert,
loose
Ball anchor
for transport
and installation
Trash box with PE-HD outlet
and galvanised mud bucket
Factory-made PE expansion
joint insert
Prefabricated reinforced concrete component
made of liquid-tight concrete, strength
class C60/75 with galvanised or stainless steel
angle housing. 16-fold fastening possibility
by boltless locking system SIDE-LOCK and
additional fastening possibility. Overall lengths
4 and 5 m

FASERFIX BIG BLS NEW

FASERFIX BIG BLS 200/300

Load classes and assessment criteria.

Channel system	**FASERFIX** BIG BLS 200 & 300			
Channel type	Type 030 + 035	Type 040 + 045	Type 060 + 065	Type 070 + 075
EN 1433	F 900	F 900	F 900	F 900
LCN according to ICAO	LCN 20	LCN 50 (B 747 - 400)	LCN 70 (A 350 - 900)	LCN 110
BFZ according to ADV	BFZ 90	BFZ 350	BFZ 750	BFZ 750
traffic load	20 tons	46 tons	64,66 tons	100 tons
SLW according to DIN 1072	SLW 60	SLW 60	SLW 60	SLW 60

FASERFIX BIG BLS 200/300

Overview channel types.

Channel system	**FASERFIX** BIG BLS		
Loading class	LCN 20	LCN 50 B 747 - 400	LCN 70 A 350 - 900
NW 200 - 4 m	Type 030	Type 040	Type 060
NW 200 - 5 m	Type 035	Type 045	Type 065
NW 300 - 4 m	Type 030	Type 040	Type 060
NW 300 - 5 m	Type 035	Type 045	Type 065

Security in planning

HAURATON offers Planners the greatest possible planning security as a partner. Products and processes are continually monitored and are subject to strict quality requirements.

The statics of the channels and the foundation have been tested in accordance with the General Building Authority Approval.

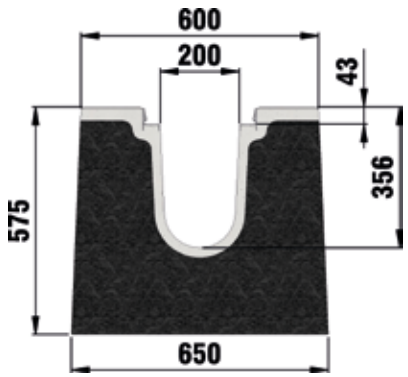
Standards, approvals and warranties

- Channels certified according to DIN EN 1433 and DIN 19580
- Test certificates from external institutions
- CE mark
- Quality certification according to DIN EN ISO 9001:2015
- General building authority approval no. Z-74.4-141
- Excellent values for alkali-silica reaction (ASR)

Allgemeine bauaufsichtliche Zulassung

FASERFIX®BIG BLS 200 NEW

The different types of FASERFIX BIG BLS 200 differ only in the reinforcement.



Type 030

FASERFIX®BIG BLS 200 NEW

Channels

FASERFIX®BIG BLS 200 load approach: Load model 1 - Lane 2 & SW 60 with an authorised axle load of 20 tons, **Type 030 - 035**

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 030, 4,0 m	4000	600	575	552	2900,00	3746	3753
Type 035, 5,0 m	5000	600	575	552	3700,00	3725	3726

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

FASERFIX®BIG BLS 200 load approach: accoarding to LCN 50 with an authorised axle load of 46 tons (747 - 400), **Type 040 - 045**

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 040	4000	600	575	552	2900,00	3721	3722
Type 045	5000	600	575	552	3700,00	3730	3731

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

FASERFIX®BIG BLS 200 load approach: accoarding to LCN 70 with an authorised axle load of 64,66 tons (A 350 - 900), **Type 060 - 065**

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 60	4000	600	575	552	2900,00	3704	3705
Type 065	5000	600	575	552	3700,00	3708	3709

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

FASERFIX®BIG BLS 200 load approach: „ReachStacker" with an authorised axle load of 100 tons, **Type 070 - 075**

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 070	4000	600	575	552	2900,00	3711	3712
Type 075	5000	600	575	552	3700,00	3718	3719

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

FASERFIX®BIG BLS 200 NEW

Gratings

FASERFIX®BIG BLS 200, class D 400*

Ductile iron grating, SW 170/18 mm, black, with plastic caps, 0,5 m

Ductile iron grating, SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 170/18 mm, black, with plastic caps, 0,5 m	500	279	40	732	9,26	3463
Ductile iron grating, SW 170/18 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	732	9,26	3483

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

FASERFIX®BIG BLS 200, class E 600

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

GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps, 0,5 m	500	279	40	818	12,65	3068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	279	40	818	12,60	3868

FASERFIX®BIG BLS 200 NEW

FASERFIX®BIG BLS 200, class F 900

Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m

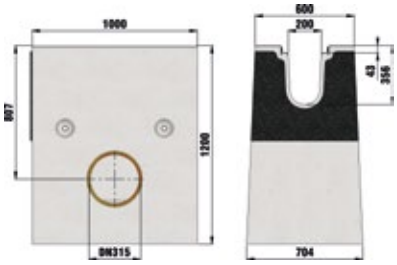
Ductile iron grating, SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating SW 20 mm, black, with plastic caps, 0,5 m	500	279	40	833	13,60	3061
Ductile iron grating, SW 20 mm, black, KTL-coated, with plastic caps, locked, 0,5 m	500	279	40	833	13,70	3861

FASERFIX®BIG BLS 200 NEW

Accessories

Trash boxes



Trash box, one-piece, with stainless steel angle housing, with lateral PVC-U socket DN/OD 315

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box, one-piece, with stainless steel angle housing, with lateral PVC-U socket DN/OD 315	1000	600	1200	1500,00	3757	3759
Trash box one-piece, with stainless steel angle housing, with laterally encased in concrete masonry collar and PE-HD outlet DA 315 SDR 17	1000	600	1200	1500,00	3765	3766

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Other pipe sizes on request.

End caps

End cap closed, galvanised, suitable for all channel types BLS 200 type H

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap closed, galvanised, suitable for all channel types BLS 200 type H	-	600	575	5,37	3784	3785
Joint plate (DIBt) made of PE for FASERFIX BIG BLS 200 type H, 10 mm	-	603	540	0,17	3748	-

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

FASERFIX®BIG BLS 200 NEW

Further accessories

Primer Sikaflex 215,
1000 ml

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Sealing material Sikaflex Tank N, poly-tube bag 600 ml**	-	-	-	1,00	19050
Primer Sikaflex 215, 1000 ml	-	-	-	1,00	19055
Sika round cord PE, made of closed-cell polyethylene foam for joint backfilling according to DIN 18 540, d = 13 mm, for joint application according to DIN EN 1433, consumption for NW 200 = 1,150 mm, for NW 300 = 1,200 mm	-	-	-	0,01	19056
Sika round cord PE, made of closed-cell polyethylene foam for joint backfilling according to DIN 18 540, d = 15 mm, for joint application according to WHG - LAU - plants, consumption for NW 200 = 1.150 mm, for NW 300 = 1.200 mm	-	-	-	0,01	19057
Philipp Spherical Head Lifting Clutch, 80-HKD-025, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	707

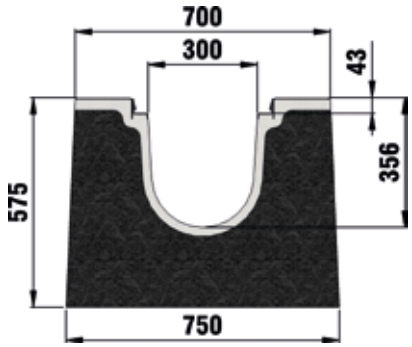
Factory-made services

	Length mm	Width mm	Height mm	Weight kg	Item No.
FASERFIX BIG BLS 200 - Allowance for factory adjustment of the overall length of the ductile iron grating	-	-	-	-	3777
FASERFIX BIG BLS 200 - Allowance for factory miter adjustment of ductile iron grating including welded edge trim	-	-	-	-	3778

Further factory-made adaptations, such as fitted lengths and mitre cuts, on request

FASERFIX®BIG BLS 300 NEW

The different types of FASERFIX BIG BLS 300 differ only in the reinforcement.



Type 030

FASERFIX®BIG BLS 300 NEW

Channels

FASERFIX®BIG BLS 300 load approach: Load model 1 - Lane 2 & SW 60with an authorised axle load of 20 tons, **Type 030 - 035**

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 030, 4,0 m	4000	700	575	812	3200,00	4744	4745
Type 035, 5,0 m	5000	700	575	812	4000,00	4725	4726

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

FASERFIX®BIG BLS 300 load approach: accoarding to LCN 50 with an authorised axle load of 46 tons (747 - 400), **Type 040 - 045**

B 747 - 400

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 040, 4,0 m	4000	700	575	812	3200,00	4721	4722
Type 045, 5,0 m	5000	700	575	812	4000,00	4730	4731

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

FASERFIX®BIG BLS 200 load approach: accoarding to LCN 70 with an authorised axel load of 64,66 tons (A 350 - 900), **Type 060 - 065**

A 350 - 900

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 060, 4,0 m	4000	700	575	812	3200,00	4734	4735
Type 065, 5,0 m	5000	700	575	812	4000,00	4738	4739

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

FASERFIX®BIG BLS 200 load approach: „ReachStacker" with an authorised axle load of 100 tons, **Type 070 - 075**

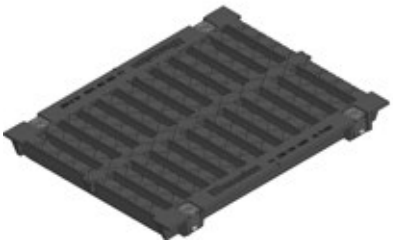
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 070, 4,0 m	4000	700	575	812	3200,00	4778	4779
Type 075, 5,0 m	5000	700	575	812	4000,00	4788	4789

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

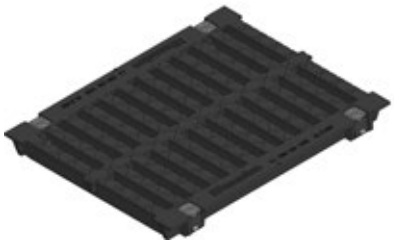
FASERFIX®BIG BLS 300 NEW

Gratings

FASERFIX®BIG BLS 300, class D 400*



Ductile iron grating, SW 2 x 136/18 mm, black, with plastic caps, 0,5 m



Ductile iron grating, SW 2 x 136/18 mm, black, locked, KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/18 mm, black, with plastic caps, 0,5 m	500	377	40	1150	16,90	4563
Ductile iron grating, SW 2 x 136/18 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1150	16,90	4543

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

FASERFIX®BIG BLS 300, class E 600

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

GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
GUGI-Ductile iron mesh grating MW 15/25 mm, black, with plastic caps, 0,5 m	500	377	40	1172	21,80	4068
GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1172	22,50	4868

FASERFIX®BIG BLS 300 NEW

FASERFIX®BIG BLS 300, class F 900

Ductile iron grating, SW 2 x 136/20 mm, black, with plastic caps, 0,5 m

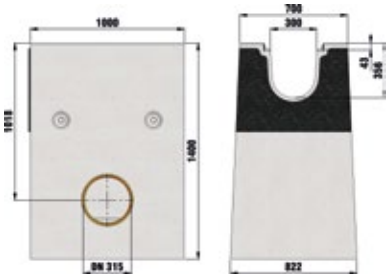
Ductile iron grating, SW 2 x 136/20 mm, black, locked, KTL-coated, with plastic caps, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Ductile iron grating, SW 2 x 136/20 mm, black, with plastic caps, 0,5 m	500	377	40	1334	23,20	4061
Ductile iron grating, SW 2 x 136/20 mm, black, locked, KTL-coated, with plastic caps, 0,5 m	500	377	40	1334	23,20	4861

FASERFIX®BIG BLS 300 NEW

Accessories

Trash boxes



Trash box element with PVC-U socket
DN/OD 315 and galvanised bucket, 1,0 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box element with PVC-U socket DN/OD 315 and galvanised bucket, 1,0 m	1000	700	1400	1900,00	4755	4756
Trash box one-piece, with Stainless steel angle housing, with laterally encased in concrete masonry collar and PE-HD outlet DN/OD 315 SDR 17	1000	700	1400	1900,00	4766	4767

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Other pipe sizes on request.

End caps

End cap, closed,
made of galvanized steel,
suitable for all channel types BLS 300

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap, closed, made of galvanized steel, suitable for all channel types BLS 300	-	680	575	6,25	4783	4784
Joint plate (DIBt) made of PE for FASERFIX BIG BLS 300 type H, 10 mm	-	703	540	0,25	4747	-

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

FASERFIX®BIG BLS 300 NEW

Further accessories

Primer Sikaflex 215,
1000 ml

	Length mm	Width mm	Height mm	Weight kg	Item No.
Hexagon bolt with locking serration, stainless steel, M 10 x 50	-	-	-	0,04	99938
Sealing material Sikaflex Tank N, poly-tube bag 600 ml**	-	-	-	1,00	19050
Primer Sikaflex 215, 1000 ml	-	-	-	1,00	19055
Sika round cord PE, made of closed-cell polyethylene foam for joint backfilling according to DIN 18 540, d = 13 mm, for joint application according to DIN EN 1433, consumption for NW 200 = 1,150 mm, for NW 300 = 1,200 mm	-	-	-	0,01	19056
Sika round cord PE, made of closed-cell polyethylene foam for joint backfilling according to DIN 18 540, d = 15 mm, for joint application according to WHG - LAU - plants, consumption for NW 200 = 1.150 mm, for NW 300 = 1.200 mm	-	-	-	0,01	19057
Philipp Spherical Head Lifting Clutch, 80-HKD-025, galvanised, 4 pieces per construction site required - due to security reasons no return can be made	-	-	-	1,52	707

Factory-made services

	Length mm	Width mm	Height mm	Weight kg	Item No.
FASERFIX BIG BLS 300 - Allowance for factory adjustment of the overall length of the ductile iron grating	-	-	-	-	4792
FASERFIX BIG BLS 300 - Allowance for factory miter adjustment of ductile iron grating including welded edge trim	-	-	-	-	4793

Further factory-made adaptations, such as fitted lengths and mitre cuts, on request

RECYFIX PLUS X

Drainage channels with a protective edge for areas with higher traffic flows.

hauraton

MAZDA Car Dealer in Hobart/Tasmania, Australia

RECYFIX PLUS X

Drainage channels with a protective edge for areas with higher traffic flows.

1 Requirements

Drainage channels in areas with high traffic must

- drain quickly and effectively
- guarantee a simple and fast installation
- correspond to DIN EN 1433

2 Application areas

- patio areas
- public parks
- pedestrian zones
- car parks
- industrial estates, trading estates

3 Solutions

Therefore RECYFIX PLUS X channels offer solutions in terms of robustness and functionality.

- channel body made of PP – light but unbreakable
- gratings up to class D 400
- nominal widths from 100 mm up to 300 mm
- corrosion-resistant galvanised steel angle housing
- highly resistant against frost and salt

Delta business centre, Pompey, France

Residential area, Brisbane, Australia

Viktoria street in Bochum, Germany

Sainsbury's Store in Alnwick, Northumberland, England

Health Centre in Bruny Island, Tasmania, Australia

YOUR BENEFITS WITH **RECYFIX** PLUS X

FRAME SYSTEM

- integrated galvanised or stainless steel frames
- protection against longitudinal and lateral movements of gratings

= PERFORMANCE ASSURED

PRE-ASSEMBLED READY FOR INSTALLATION

- channel and grating = one part
- no spare parts
- easy handling on stock and construction site
- cost-efficient transport

= BETTER GROSS MARGIN

HIGH RESISTANCE

- high resistance against frost, de-icing salt and UV rays
- withstands high temperature differences
- for climate ranges from - 50 °C to + 80 °C and more

= PERFORMANCE ASSURED

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- much lighter than channels made of polymer / resin concrete
- easy transport and installation

= COST SAVINGS

HIGH-GRADE MATERIAL

- **RECYFIX** - stable and almost unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use
- 100 % recycled composite body (and also 100 % recyclable) → 100 % environmentally friendly
- 0 % water absorption
- smooth inner surface for superior flow characteristics
- PP channel body can be cut, drilled and worked easily on site

= PERFORMANCE ASSURED

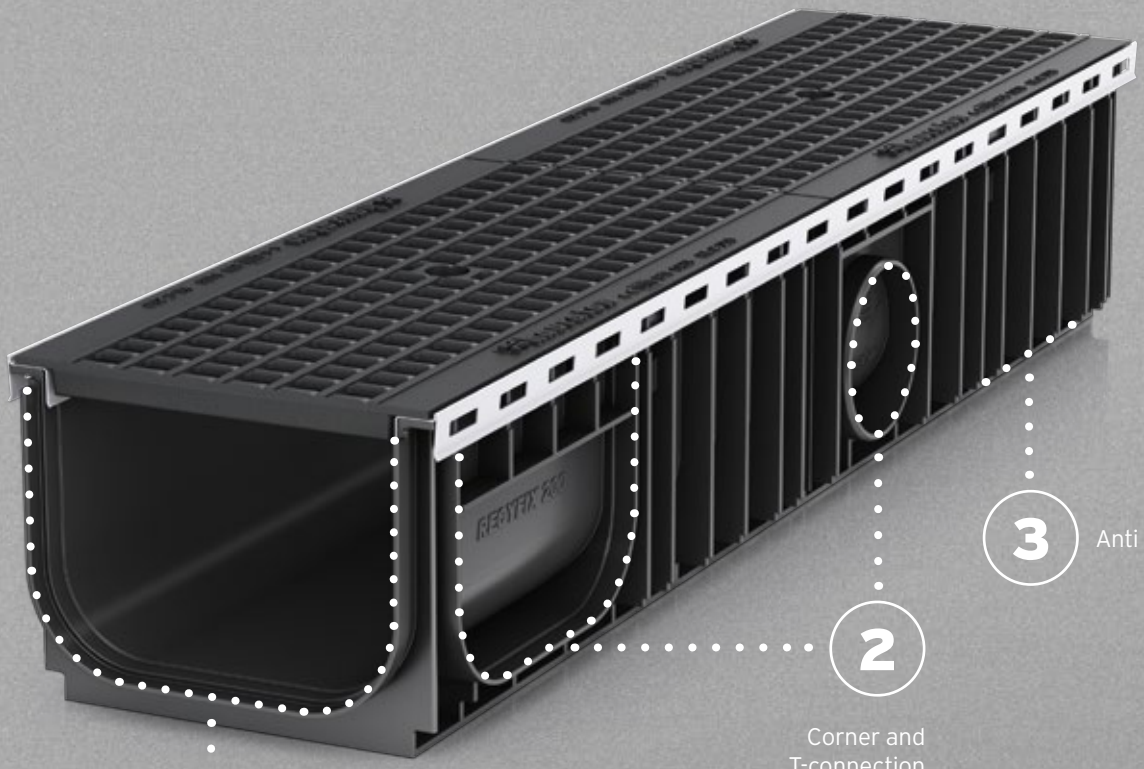
HIGH STABILITY

- proven structural design for superior resistance to dynamic forces and D 400 kN loads
- various ductile iron gratings in loading classes D 400 according to DIN EN 1433
- stable and durable drainage channel with protective edge

= QUALITY- & PERFORMANCE ASSURED

IDEAL FOR ...

applications with higher traffic up to class 400, such as car parks, industrial estates and sewage plants.



1 Tongue and groove connection & safety joint according to EN 1433

2 Corner and T-connection

3 Anti floating

RECYFIX PLUS X

Drainage channels with a protective edge for areas with higher traffic flows.

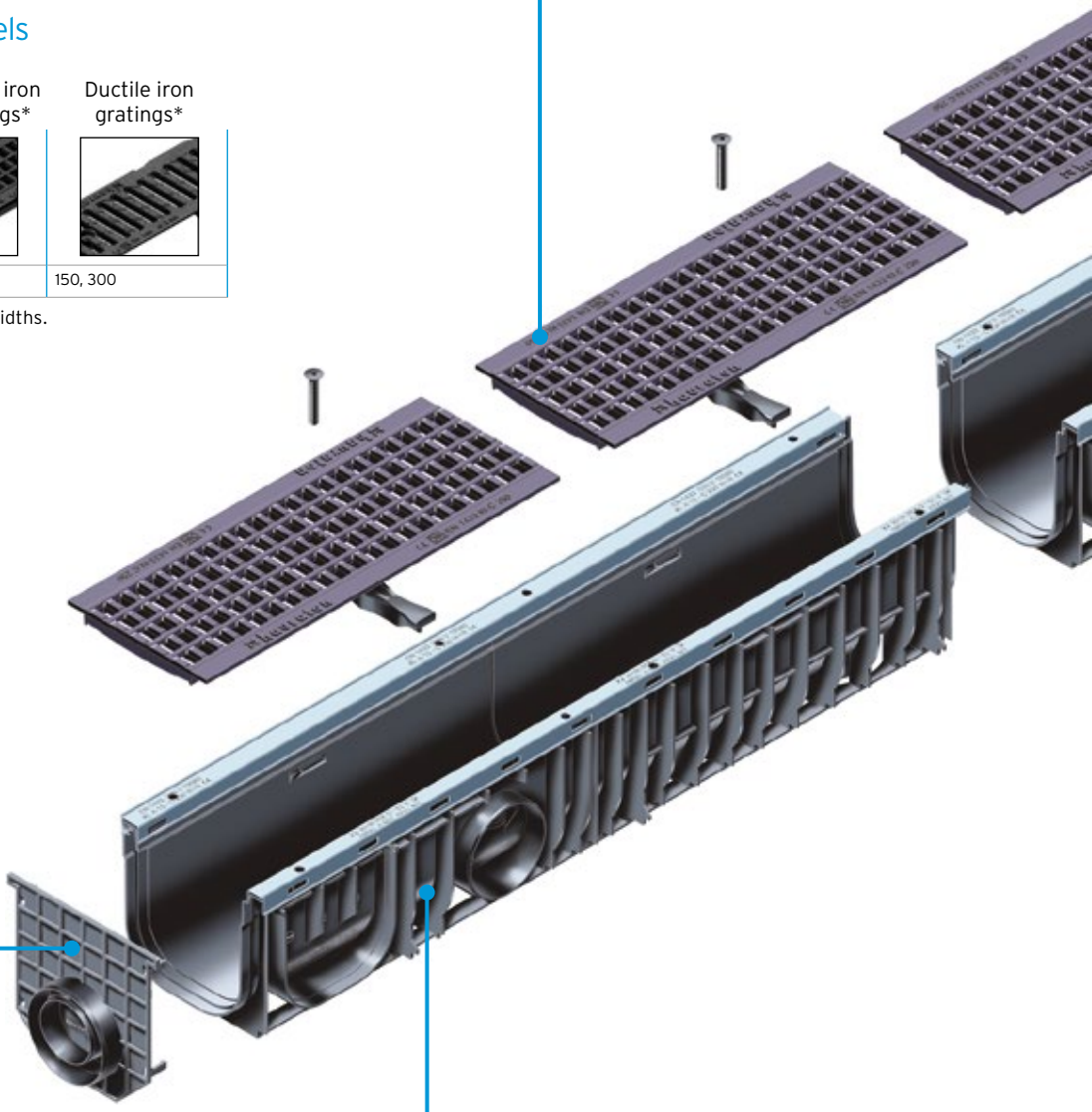
RECYFIX PLUS X channels are certified according to EN 1433 and can be installed in areas in which the following loading capacities can be expected:

Category D 400,
Load CLASS 400 kn

Grating options
RECYFIX PLUS X channels

	GUGI-Ductile iron mesh gratings*	Ductile iron gratings*
Load class		
D 400	100, 150, 200	150, 300

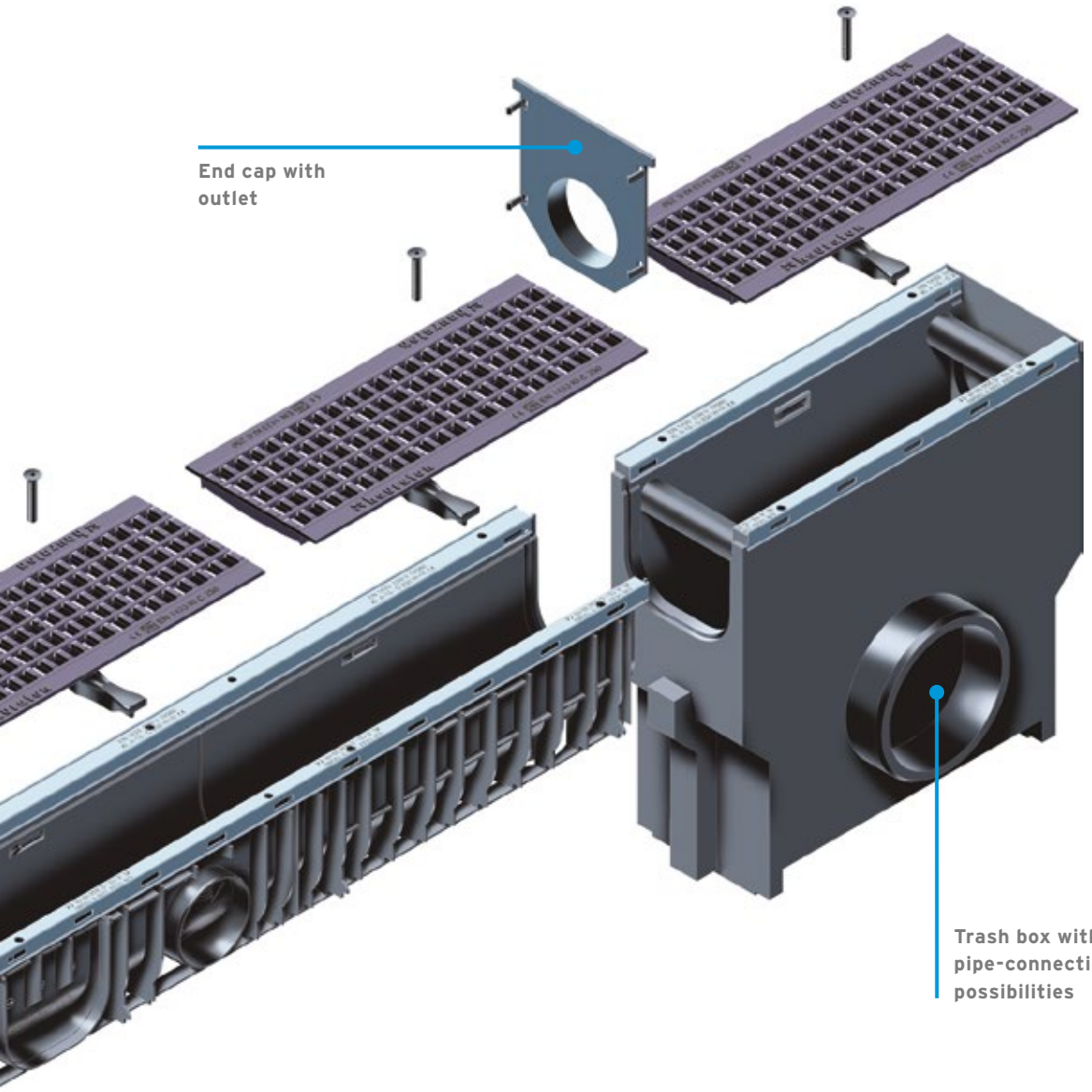
* The measurements listed are internal widths.



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

End cap without outlet

Channels made of PP with integrated steel frame, according to EN 1433, with groove and tongue connection for exact installation



Widths and heights of **RECYFIX** PLUS:

Nominal sizes	100			150			200			300		
Type 60	147	60	40	-	-	-	-	-	-	-	-	-
Type 80	147	80	60	-	-	-	-	-	-	-	-	-
Type 100	-	-	-	202	100	80	247	100	80	-	-	-
Type 01	147	135	107	202	193	165	-	-	-	347	291	255
Type 010	147	186	157	-	-	-	247	186	157	-	-	-
Type 020	-	-	-	-	-	-	247	236	208	-	-	-

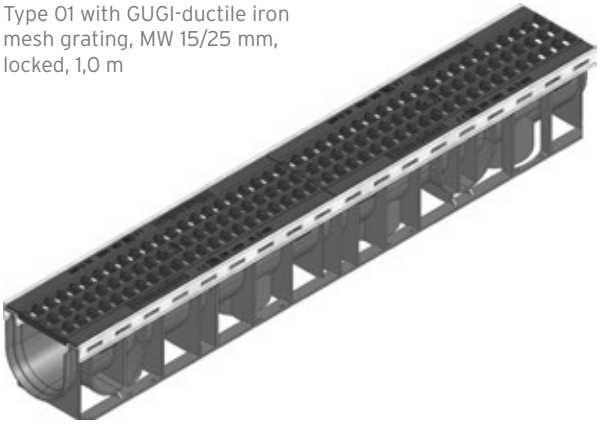
Width/Height/Inside height (in mm)

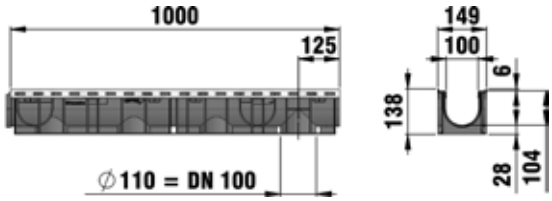
RECYFIX®PLUS X 100

Combi article

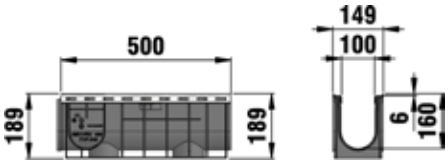
RECYFIX®PLUS X 100, class D 400*

Type 01 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m





Type 01005 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 0,5 m

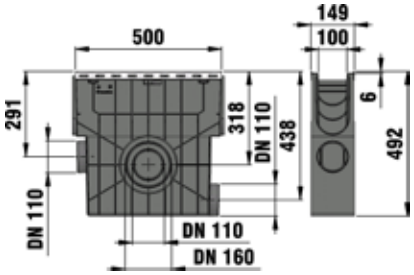


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	149	138	92	440	10,50	42070
Type 0105 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 0,5 m	500	149	138	92	440	5,18	42077
Type 010 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	149	189	142	440	10,49	42075
Type 01005 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 0,5 m	500	149	189	142	440	5,18	42078

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

Accessories

Trash boxes



Trash box with GUGI-ductile iron mesh grating, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with GUGI-ductile iron mesh grating, locked, 0,5 m	500	149	492	8,21	42079

RECYFIX®PLUS X 100

Accessories

End caps

End cap,
closed for type 01

End cap
with outlet DN/OD 110
for type 01

End cap combined
made of PP with outlet
DN/OD 110, type 010

Mud bucket vertical made
of modified composite
for outlet DN/OD 110, black

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap, closed for type 01	-	150	108	0,03	48081
End cap with outlet DN/OD 110 for type 01	-	148	185	0,08	48091
End cap closed for type 010	-	150	160	0,04	40282
End cap combined made of PP with outlet DN/OD 110, type 010	-	148	185	0,10	40283
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293

RECYFIX®PLUS X 100

Further accessories

Foul air trap,
vertical, DN/OD 110

Foul air trap
DN/OD 110, outside

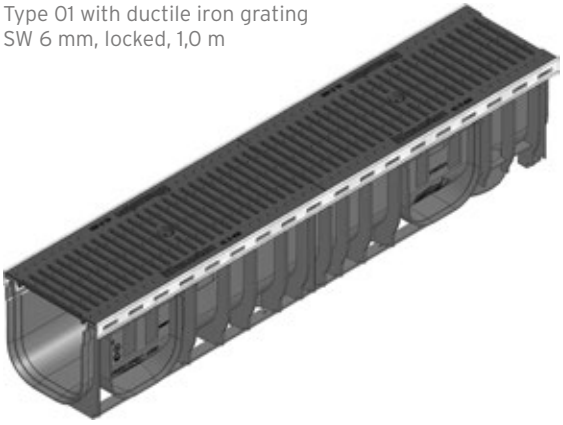
	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Foul air trap DN/OD 110, inside	-	-	-	0,20	40290
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Step Fall Adapter for step slope, from type 01 to type 010	174	98	86	0,21	41290
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

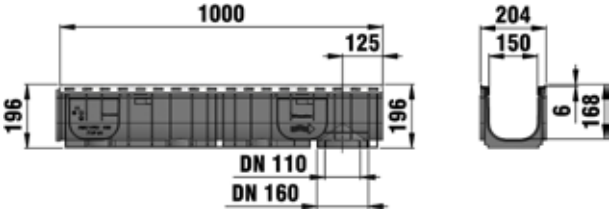
RECYFIX®PLUS X 150

Combi article

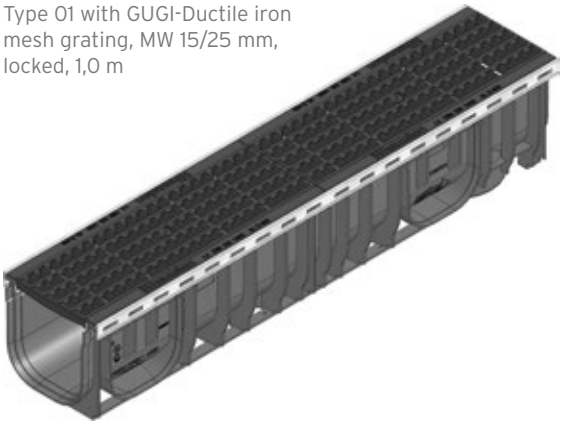
RECYFIX®PLUS X 150, class D 400*

Type 01 with ductile iron grating SW 6 mm, locked, 1,0 m





Type 01 with GUGI-Ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m



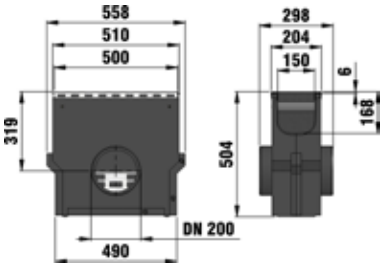
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating SW 6 mm, locked, 1,0 m	1000	204	196	225	400	15,34	42178
Type 01 with GUGI-Ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	204	196	225	699	15,90	42170

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

RECYFIX®PLUS X 150

Accessories

Trash boxes



Trash box with GUGI-Ductile iron mesh grating, MW 15/25 mm, locked, 0,5 m

Trash box with ductile iron grating SW 6 mm, black, class D 400, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with GUGI-Ductile iron mesh grating, MW 15/25 mm, locked, 0,5 m	500	204	504	21,58	42179
Trash box with ductile iron grating SW 6 mm, black, class D 400, locked, 0,5 m	500	204	504	20,78	42159

End caps

End cap KTL-coated for RECYFIX 150 trash box

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap KTL-coated for RECYFIX 150 trash box	-	203	168	0,33	40159
End cap combined made of PP with outlet DN/OD 75/110, type 01	-	210	203	0,13	40191

Further accessories

Foul air trap DN/OD 110, outside

Foul air trap DN/OD 160

Foul air trap, vertical, DN/OD 110

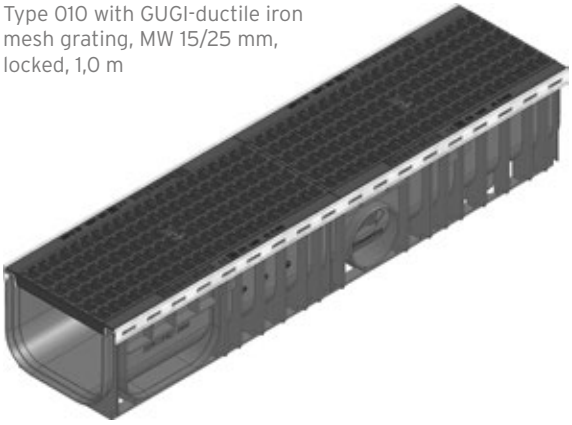
	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Foul air trap DN/OD 160	584	160	439	2,00	960
Foul air trap DN/OD 110, inside	-	-	-	0,20	40290
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

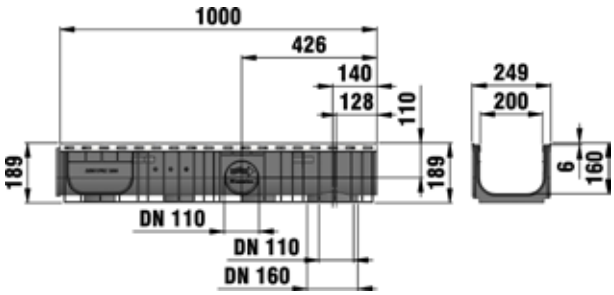
RECYFIX®PLUS X 200

Combi article

RECYFIX®PLUS X 200, class D 400*

Type 010 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m





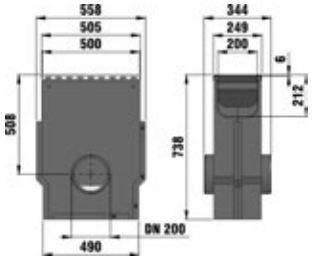
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	249	189	294	873	20,90	42275
Type 020 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	249	239	394	873	21,00	42280

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

RECYFIX®PLUS X 200

Accessories

Trash boxes



Trash box with GUGI-ductile iron mesh grating, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with GUGI-ductile iron mesh grating, locked, 0,5 m	500	249	738	33,70	42253

End caps

End cap galvanised
for RECYFIX 200 trash box

End cap combined
made of PP closed / with outlet
DN/OD 110, Type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap galvanised for RECYFIX 200 trash box	-	248	211	0,56	40659
End cap combined made of PP closed / with outlet DN/OD 110, Type 010	-	254	199	0,18	40792

Further accessories

Foul air trap,
vertical, DN/OD 110

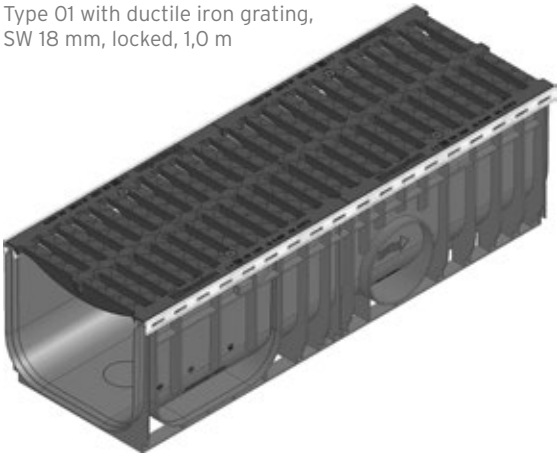
	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Step Fall Adapter for step slope, from type 010 to type 020	194	208	89	0,39	49590
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

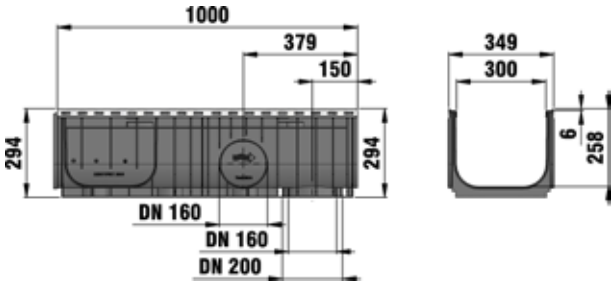
RECYFIX®PLUS X 300

Combi article

RECYFIX®PLUS X 300, class D 400*

Type 01 with ductile iron grating,
SW 18 mm, locked, 1,0 m





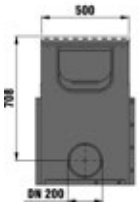
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, SW 18 mm, locked, 1,0 m	1000	349	294	730	1102	33,64	42377

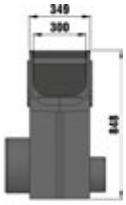
*** Not for use across the carriageway of highways or motorways in moving traffic.**

RECYFIX®PLUS X 300

Accessories

Trash boxes



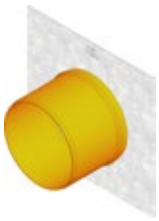


Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 200, locked, 0,5 m

Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 315, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 200, locked, 0,5 m	500	349	848	50,84	32334
Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 315, locked, 0,5 m	500	349	848	50,84	32341

End caps



End cap with horizontal PVC-U pipe outlet galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	360	340	1,85	40882
End cap with horizontal PVC-U pipe outlet galvanised, type 01	-	360	340	2,30	40892

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

RECYFIX NC

Highly stable and lightweight - linear drainage made of PP for Civils engineering.

hauraton

Building material stockage,
SFS unimarket, Switzerland
STILL
RX20-18

RECYFIX NC

Highly stable and lightweight - linear drainage made of PP for Civils engineering.

1 Requirements

Modern drainage systems must

- permanently withstand to high loads and large forces.
- be easy to install.
- be resistant to environmental influences (frost, heat, humidity).
- comply with DIN EN 1433.

2 Application areas

- traffic areas for industry
- loading and unloading zones
- car parks
- pedestrian areas
- public areas
- petrol stations

3 Solutions

RECYFIX NC channels:

- channels made of PP for civil engineering
- load capacity up to E 600 according to EN 1433
- maximum security through 8-fold bolt fixing
- very lightweight, quick and cost saving installation.

Industrial yards

Loading and unloading zones

Access ways

Logistic areas

Car parks

RECYFIX NC

Highly stable and lightweight - linear drainage made of PP for Civils engineering.

SFS unimarket, Switzerland, sees positive results with the installation of **RECYFIX** NC: Heavily-trafficked storage area holds up against enormous dynamic loads.

RECYFIX channels have mastered their ability in heavy-duty traffic areas. This has been proven in a practical test with exceptional results in a material storage area at the Swiss builders-merchants SFS unimarket. The heavily-frequented RECYFIX NC channels drain the material storage area reliably and safely.

Exceptionally high demands:

- high thrust forces and point loads
- ramp is heavily frequented
- maximum weight load due to daily forklift traffic (strong shear forces/point loads)

Customer review:

„Two years after installation, there are no changes whatsoever. No cracks, fractures, subsidence or other wear and tear have been found despite the heavy loads. We have put this product to the test and can recommend it to our customers without any hesitation“, says Bruno Tollardo, Logistics Manager at SFS unimarket in Altstätten.

Installation of drainage channels:

- RECYFIX NC 200, type 010 with ductile iron grating, load class E 600
- at lower end of the ramp (due to local conditions and hydraulic calculations)

STILL
RX20-18

YOUR BENEFITS WITH **RECYFIX** NC

VERY HIGH STABILITY

- massive ductile iron grating
- **RECYFIX** NC 100, 200, 300: load class E 600
- **RECYFIX** NC 400: load class D 400
- 8-fold bolted per metre

= QUALITY- & PERFORMANCE ASSURED

INTEGRATED ANGLE HOUSING

- according to EN 1433,
- molded as integral part of the channel body (made of PP)
- ridges to stop any lateral movement

= PERFORMANCE ASSURED

EASY HANDLING ON SITE

- much lighter than channels made of polymer / resin concrete
- easy transport and installation
  Example (complete system - 1 m channel incl. gratings)
  NW 100 = 10.7 kg, NW 200 = 20.8 kg

= TIME- & COST SAVINGS

HIGH-GRADE MATERIAL

- **RECYFIX** - stable and almost unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use
- 100 % recycled composite body (and also 100 % recyclable) → 100 % environmentally friendly
- 0 % water absorption
- smooth inner surface for superior flow characteristics
- non-conductive
- PP channel body can be cut, drilled and worked easily on site

= QUALITY- & PERFORMANCE ASSURED

HIGH RESISTANCE

- high resistance against frost, de-icing salt and UV-rays
- withstands high temperature differences
- for climate ranges from - 50 °C to + 80 °C and more

= QUALITY ASSURED / LONGEVITY

PRE-ASSEMBLED READY FOR INSTALLATION

- channel and grating = one part
- no spare parts
- easy handling in stock and on construction site
- cost-efficient transport

= BETTER GROSS MARGIN

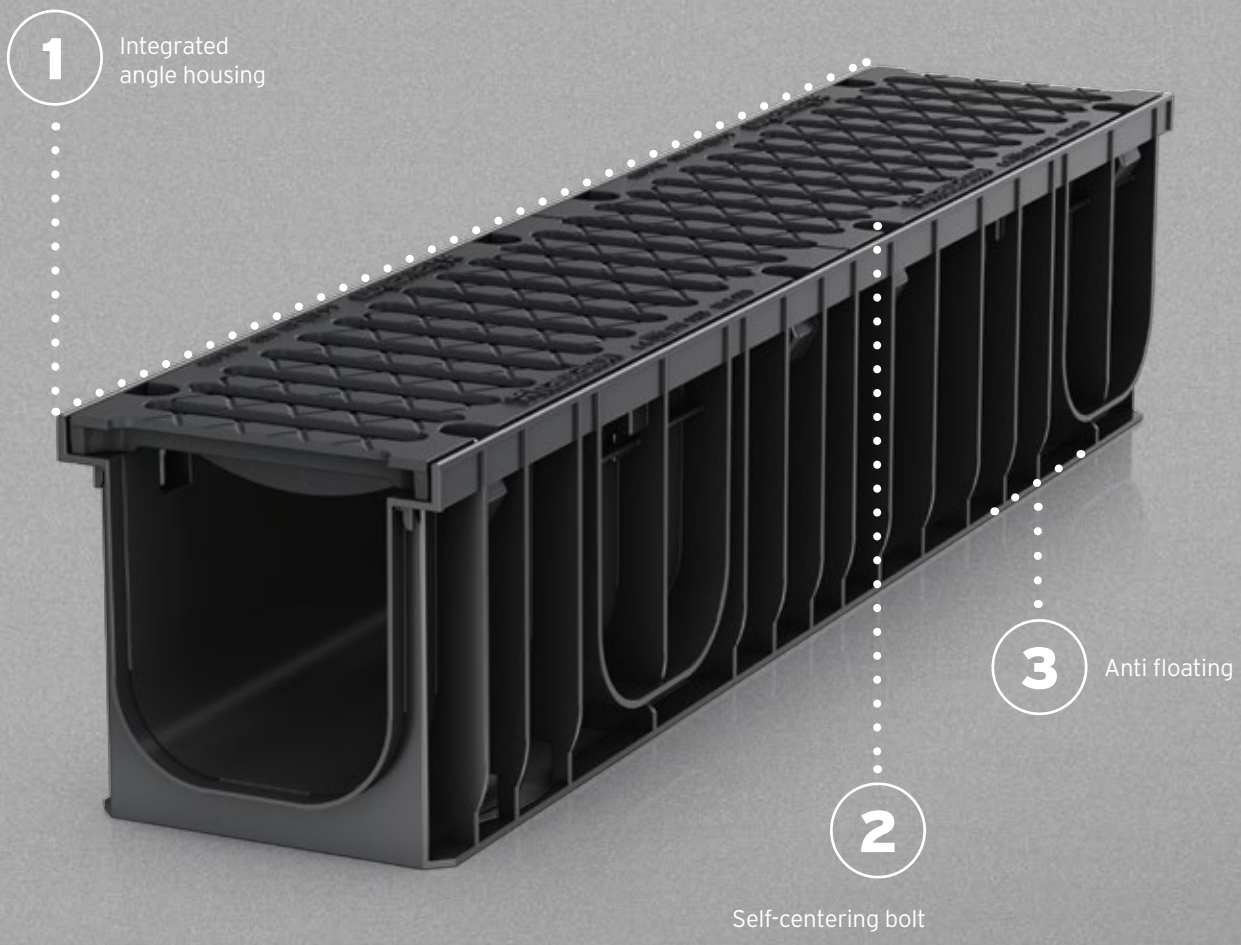
SELF-CENTERING BOLT

- the bolt automatically finds the right position
- bolts easily detachable even after years of use

= QUALITY ASSURED / COST SAVINGS

IDEAL FOR ...

heavy duty applications with higher traffic up to class E 600, such as car parks, industiral estates and petrol stations.



The lightest heavy-duty channel

Also available as the first channel made of **polypropylene (PP)** with nominal width 400

RECYFIX NC

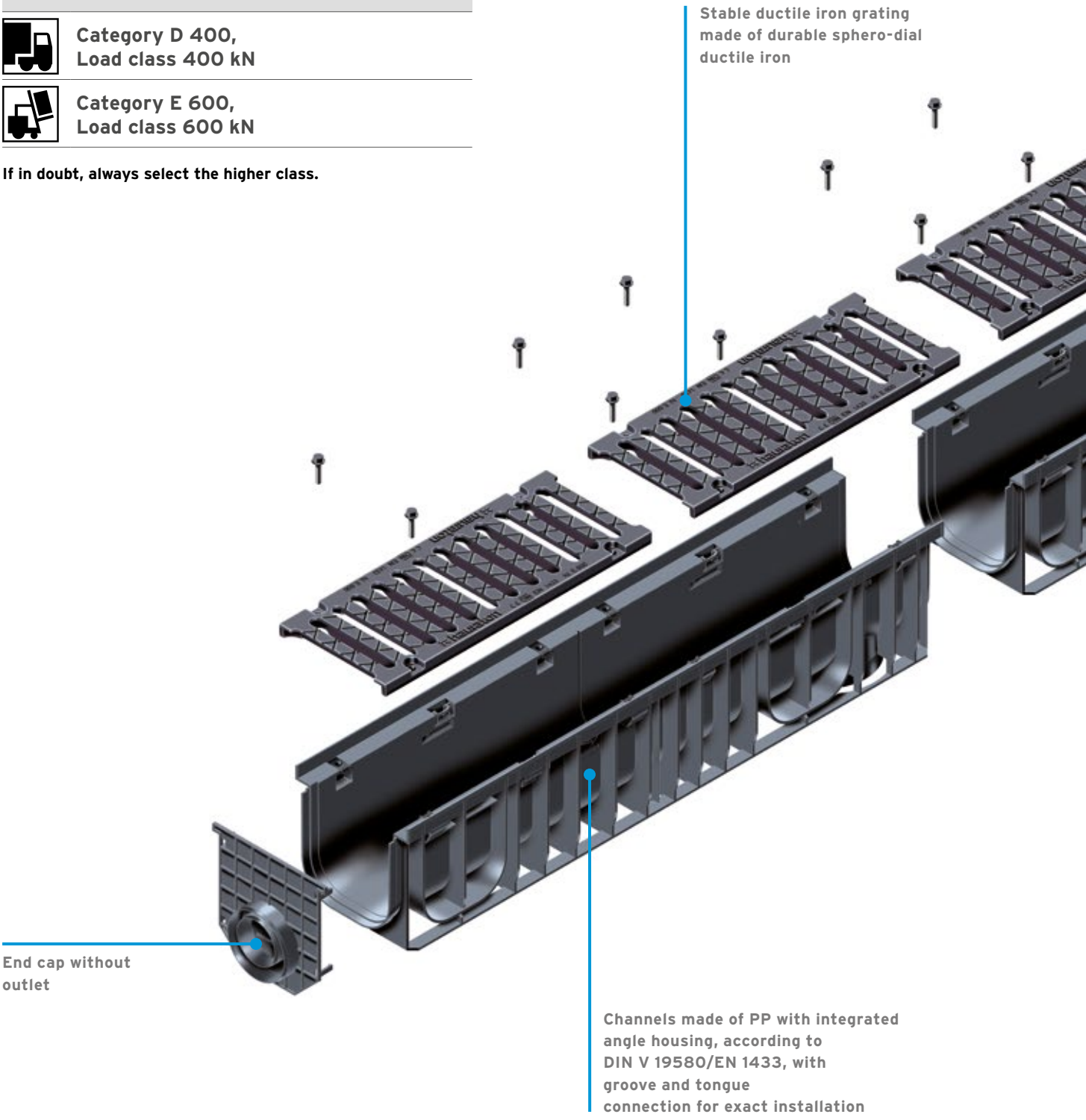
Highly stable and lightweight - linear drainage made of PP for Civils engineering.

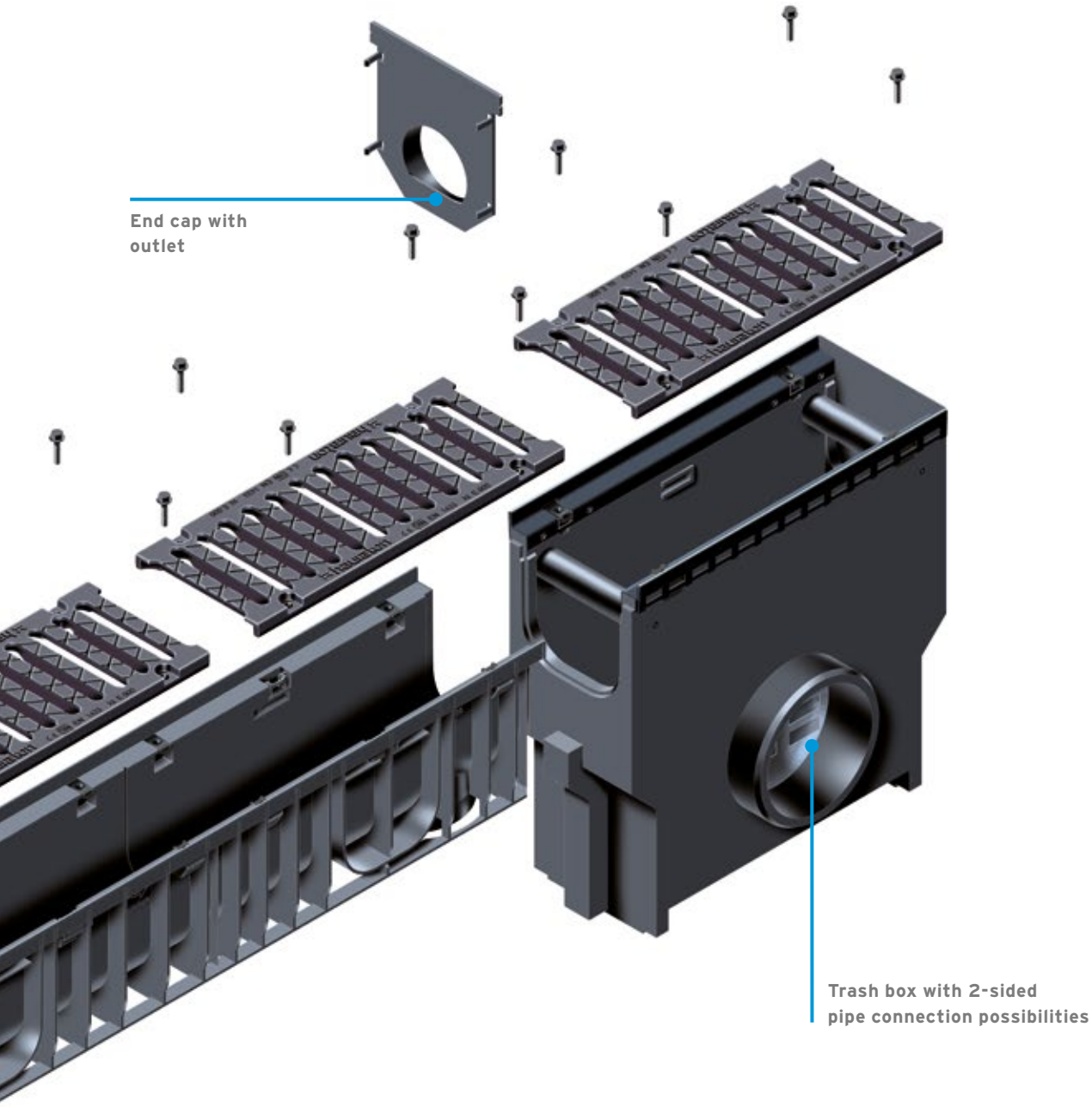
RECYFIX NC channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:

Category D 400, Load class 400 kN

Category E 600, Load class 600 kN

If in doubt, always select the higher class.





Widths and heights of **RECYFIX**®NC:

Nominal sizes	100			150			200			300			400		
Type 75	160	75	55	-	-	-	-	-	-	-	-	-	-	-	-
Type 01	160	150	122	212	210	180	-	-	-	-	-	-	-	-	-
Type 010	160	200	172	-	-	-	262	200	172	362	360	320	500	500	456
Type 020	160	250	222	-	-	-	-	-	-	-	-	-	-	-	-

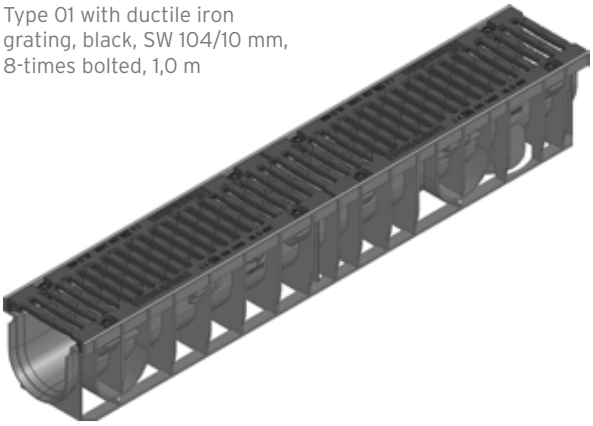
Width/Height/Inside height (in mm)

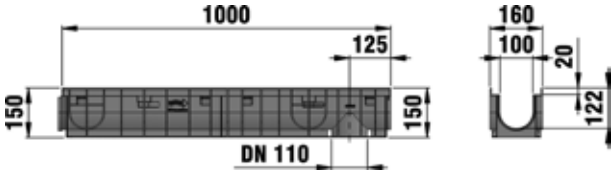
RECYFIX®NC 100

Combi article

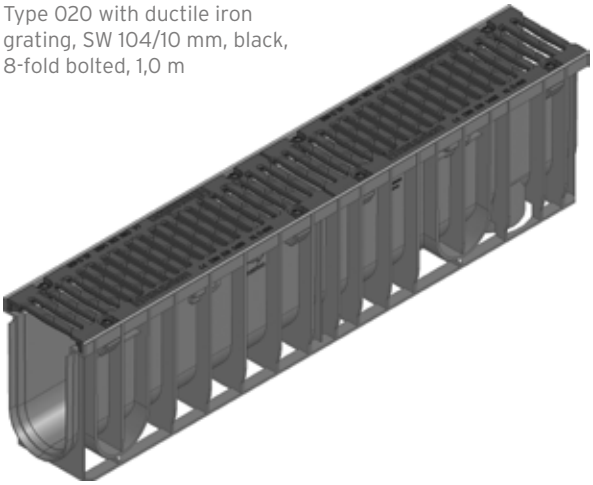
RECYFIX®NC 100, class D 400

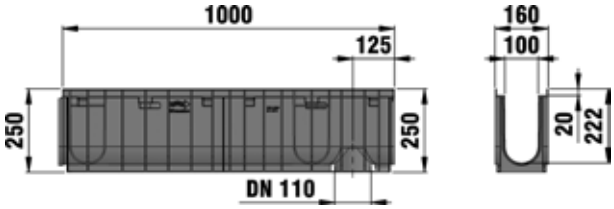
Type 01 with ductile iron grating, black, SW 104/10 mm, 8-times bolted, 1,0 m





Type 020 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m



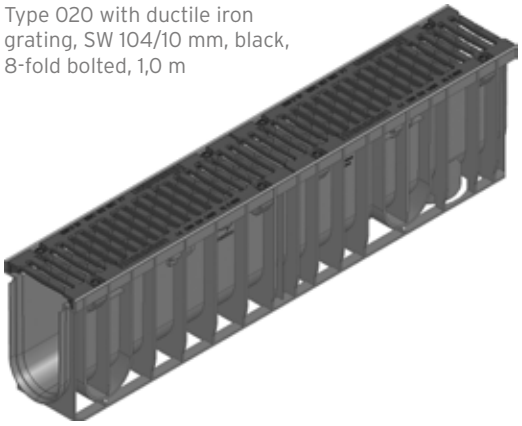


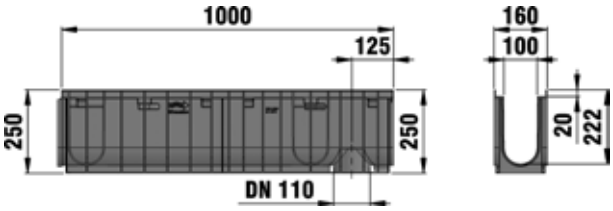
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, black, SW 104/10 mm, 8-times bolted, 1,0 m	1000	160	150	92	427	10,67	48771
Type 0105 with ductile iron grating, black, SW 104/10 mm, 4-times bolted, 0,5 m	500	160	150	92	427	5,43	48746
Type 010 with ductile iron grating, black, SW 104/10 mm, 8-times bolted, 1,0 m	1000	160	200	142	427	11,60	48773
Type 01005 with ductile iron grating, black, SW 104/10 mm, 4-times bolted, 0,5 m	500	160	200	142	427	5,74	48745
Type 020 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m	1000	160	250	192	427	12,50	48777
Type 02005 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 0,5 m	500	160	250	192	427	6,20	48779
Type 75 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m	1000	160	75	35	427	10,26	48775

RECYFIX®NC 100

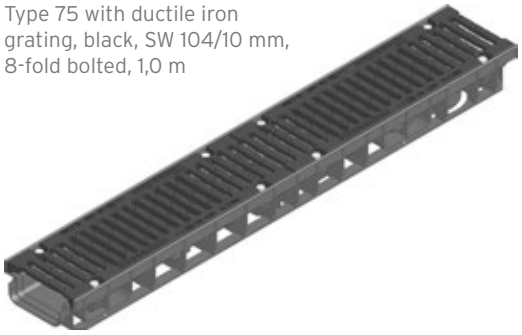
RECYFIX®NC 100, class E 600

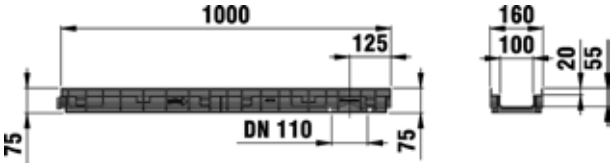
Type 020 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m





Type 75 with ductile iron grating, black, SW 104/10 mm, 8-fold bolted, 1,0 m



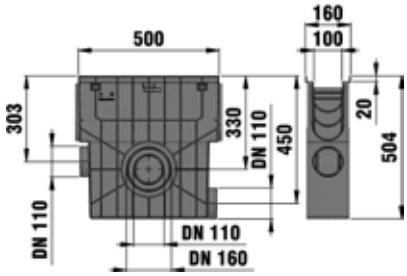


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, black, SW 104/10 mm, 8-fold bolted, 1,0 m	1000	160	150	92	427	10,70	48770
Type 0105 with ductile iron grating, black, SW 104/10 mm, 4-fold bolted, 0,5 m	500	160	150	92	427	5,43	48748
Type 010 with ductile iron grating, black, SW 104/10 mm, 8-fold bolted, 1,0 m	1000	160	200	142	427	11,92	48772
Type 01005 with ductile iron grating, black, SW 104/10 mm, 4-fold bolted, 0,5 m	500	160	200	142	427	5,80	48747
Type 020 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m	1000	160	250	192	427	12,50	48776
Type 02005 with ductile iron grating, SW 104/10 mm, black, 4-fold bolted, 0,5 m	500	160	250	192	427	6,32	48778
Type 75 with ductile iron grating, SW 104/10 mm, black, 8-fold bolted, 1,0 m	1000	160	75	35	427	10,23	48774

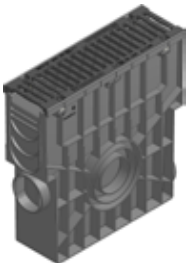
RECYFIX®NC 100

Accessories

Trash boxes



Trash box with PP mud bucket
and ductile iron grating, black, SW 10 mm,
class D 400, 4-fold bolted, 0,5 m



Trash box with plastic bucket,
with ductile iron grating, black, SW 10 mm,
class E 600, 4-fold bolted, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with PP mud bucket and ductile iron grating, black, SW 10 mm, class D 400, 4-fold bolted, 0,5 m	500	160	504	8,79	48754
Trash box with plastic bucket, with ductile iron grating, black, SW 10 mm, class E 600, 4-fold bolted, 0,5 m	500	160	504	8,86	48753

RECYFIX®NC 100

End caps

End cap closed
for type 01

End cap made of PP
with outlet DN/OD 110,
type 01

End cap type 75

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type 01	-	160	124	0,04	48681
End cap made of PP with outlet DN/OD 110, type 01	-	160	201	0,08	48691
End cap closed for type 010	-	160	176	0,05	47082
End cap made of PP with outlet DN/OD 110,type 010	-	160	201	0,11	47093
End cap made of PP, type 020	-	160	250	0,12	48683
End cap made of PP with outlet DN/OD 110, type 020	-	160	250	0,12	48695
End cap type 75	-	160	61	0,03	47097

Further accessories

Step Fall Adapter
for step slope, from type 01
to type 010,from type 010
to type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
Step Fall Adapter for step slope, from type 01 to type 010, from type 010 to type 020	189	108	88	0,21	48790
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

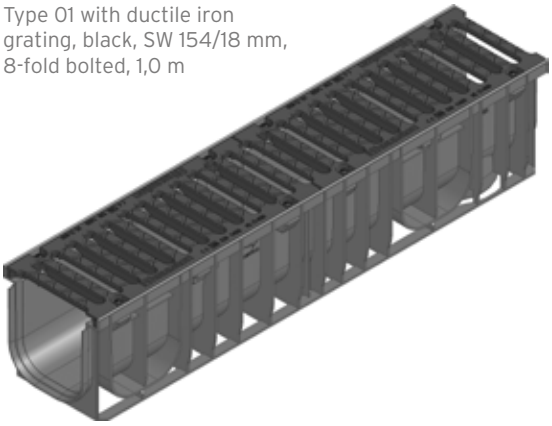
**Amount needed for Type 020: approx. 22 ml per joint

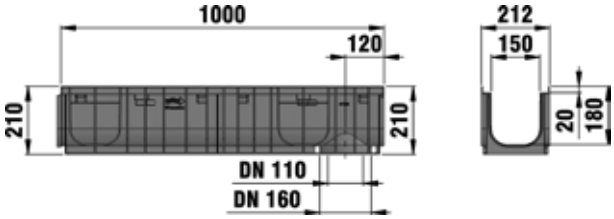
RECYFIX®NC 150

Combi article

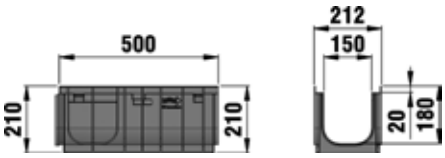
RECYFIX®NC 150, class D 400

Type 01 with ductile iron grating, black, SW 154/18 mm, 8-fold bolted, 1,0 m





Type 0105 with ductile iron grating, black, SW 154/18 mm, 4-fold bolted, 0,5 m

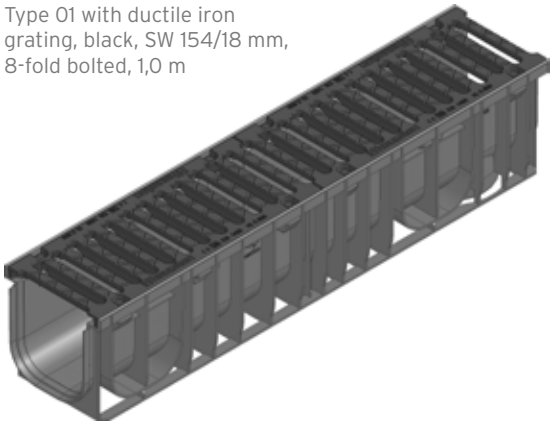


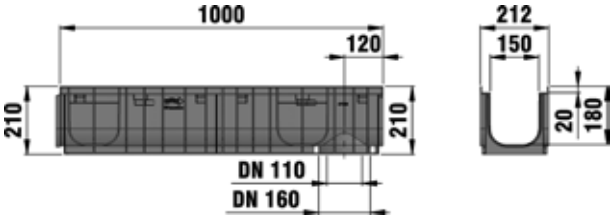
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, black, SW 154/18 mm, 8-fold bolted, 1,0 m	1000	212	210	230	702	15,73	48871
Type 0105 with ductile iron grating, black, SW 154/18 mm, 4-fold bolted, 0,5 m	500	212	210	230	702	7,88	48847

RECYFIX®NC 150

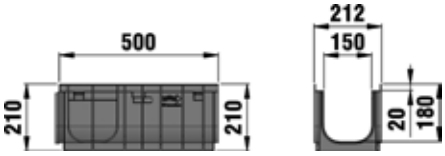
RECYFIX®NC 150, class E 600

Type 01 with ductile iron grating, black, SW 154/18 mm, 8-fold bolted, 1,0 m





Type 0105 with ductile iron grating, black, SW 154/18 mm, 4-fold bolted, 0,5 m

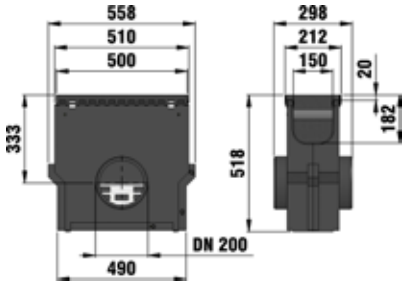


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, black, SW 154/18 mm, 8-fold bolted, 1,0 m	1000	212	210	230	702	15,74	48870
Type 0105 with ductile iron grating, black, SW 154/18 mm, 4-fold bolted, 0,5 m	500	212	210	230	702	7,88	48848

RECYFIX®NC 150

Accessories

Trash boxes



Trash box with galvanised bucket,
with ductile iron grating, black, SW 18 mm,
class D 400, 4-fold bolted, 0,5 m

Trash box with galvanised bucket,
with ductile iron grating, black, SW 18 mm,
class E 600, 4-fold bolted, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket, with ductile iron grating, black, SW 18 mm, class D 400, 4-fold bolted, 0,5 m	500	212	518	22,16	48854
Trash box with galvanised bucket, with ductile iron grating, black, SW 18 mm, class E 600, 4-fold bolted, 0,5 m	500	212	518	22,16	48853

RECYFIX®NC 150

End caps

End cap combined,
PP with outlet DN/OD 75/110
for type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined, PP with outlet DN/OD 75/110 for type 01	-	210	218	0,14	40591

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Mud bucket vertical made of modified composite for outlet DN/OD 160, black	-	-	-	0,13	845
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

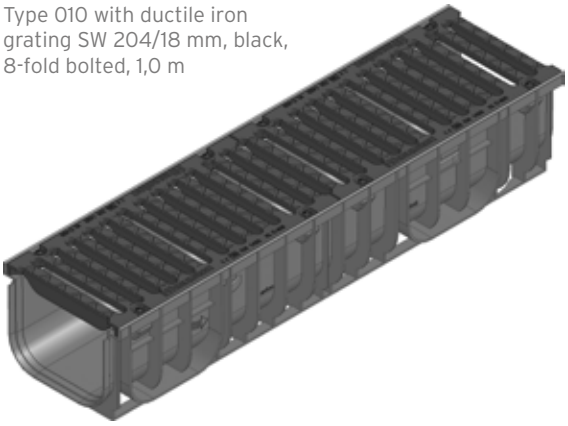
****Amount needed for Type 01: approx. 17 ml per joint**

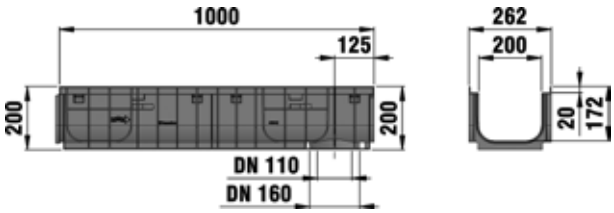
RECYFIX®NC 200

Combi article

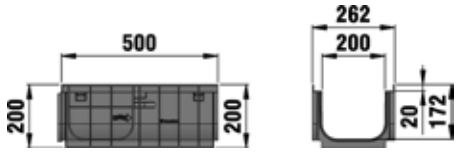
RECYFIX®NC 200, class D 400

Type 010 with ductile iron grating SW 204/18 mm, black, 8-fold bolted, 1,0 m





Type 01005 with ductile iron grating, black, SW 204/18 mm, 4-fold bolted, 0,5 m

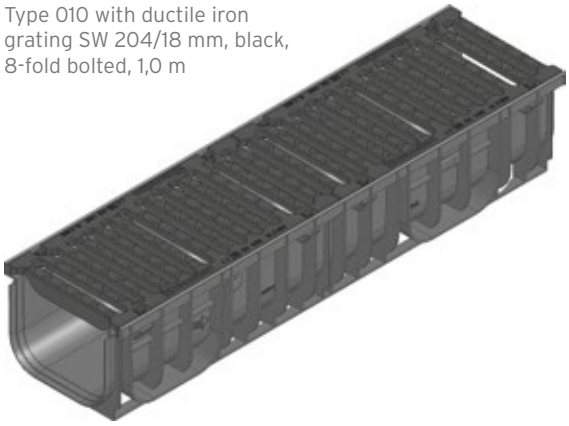


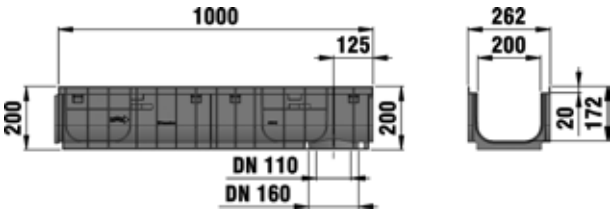
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating SW 204/18 mm, black, 8-fold bolted, 1,0 m	1000	262	200	294	936	20,75	49573
Type 01005 with ductile iron grating, black, SW 204/18 mm, 4-fold bolted, 0,5 m	500	262	200	294	936	10,38	49548

RECYFIX®NC 200

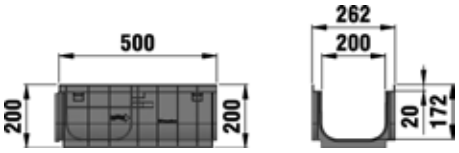
RECYFIX®NC 200, class E 600

Type 010 with ductile iron grating SW 204/18 mm, black, 8-fold bolted, 1,0 m





Type 01005 with ductile iron grating, black, SW 204/18 mm, 4-fold bolted, 0,5 m

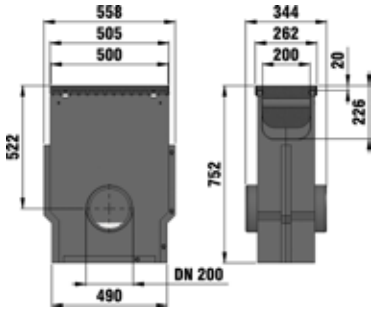


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating SW 204/18 mm, black, 8-fold bolted, 1,0 m	1000	262	200	294	936	20,76	49572
Type 01005 with ductile iron grating, black, SW 204/18 mm, 4-fold bolted, 0,5 m	500	262	200	294	936	10,38	49547

RECYFIX®NC 200

Accessories

Trash boxes



Trash box with galvanised bucket,
with ductile iron grating, black, SW 18 mm,
class E 600, 4-fold bolted, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket, with ductile iron grating, black, SW 18 mm, class D 400, 4-fold bolted, 0,5 m	500	262	752	35,20	49554
Trash box with galvanised bucket, with ductile iron grating, black, SW 18 mm, class E 600, 4-fold bolted, 0,5 m	500	262	752	35,20	49553

End caps

End cap combined
made of PP closed / with outlet
DN/OD 110, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP closed / with outlet DN/OD 110, type 010	-	258	217	0,20	41387

RECYFIX®NC 200

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

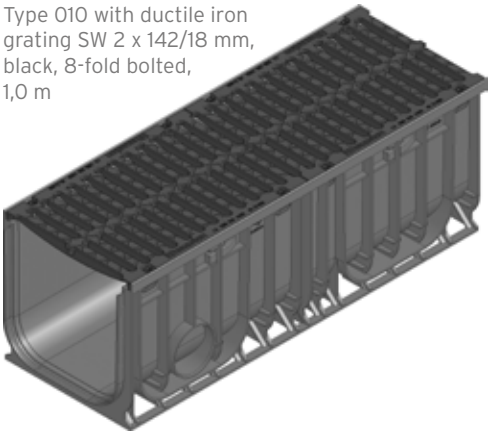
**Amount needed for Type 010: approx. 18 ml per joint

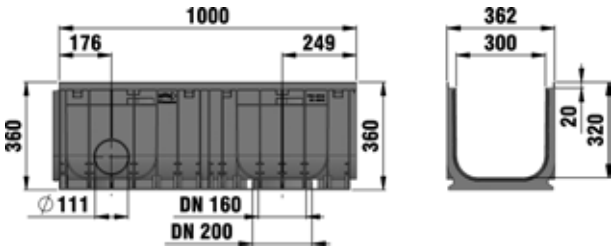
RECYFIX®NC 300

Combi article

RECYFIX®NC 300, class D 400

Type 010 with ductile iron grating SW 2 x 142/18 mm, black, 8-fold bolted, 1,0 m

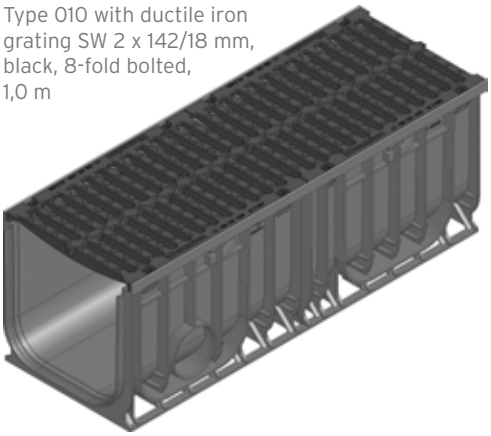


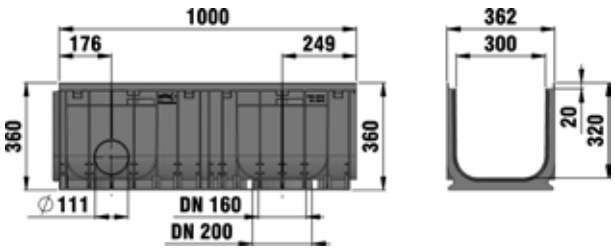


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating SW 2 x 142/18 mm, black, 8-fold bolted, 1,0 m	1000	362	360	873	1293	34,65	49873

RECYFIX®NC 300, class E 600

Type 010 with ductile iron grating SW 2 x 142/18 mm, black, 8-fold bolted, 1,0 m

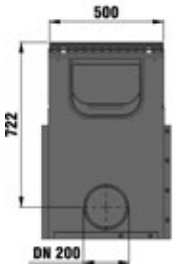


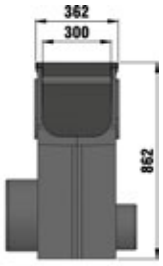


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating SW 2 x 142/18 mm, black, 8-fold bolted, 1,0 m	1000	362	360	873	1293	35,00	49872

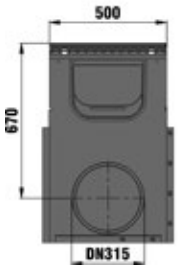
Accessories

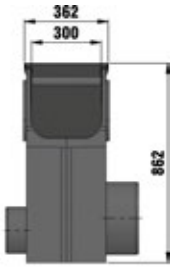
Trash boxes





Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 200, locked, 0,5 m





Trash box with galvanised mud bucket and Ductile iron grating, SW 18 mm, black, class E 600, with PVC-U pipe outlet DN/OD 315, locked, 0,5 m

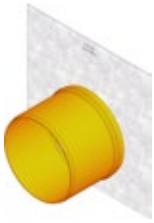
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 200, locked, 0,5 m	500	362	862	50,46	32330
Trash box with galvanised mud bucket and Ductile iron grating, SW 18 mm, black, class D 400, with PVC-U pipe outlet DN/OD 315, locked, 0,5 m	500	362	862	50,46	32337
Trash box with galvanised mud bucket and Ductile iron grating, SW 18 mm, black, class E 600, with PVC-U pipe outlet DN/OD 200, locked, 0,5 m	500	362	862	50,47	32331
Trash box with galvanised mud bucket and Ductile iron grating, SW 18 mm, black, class E 600, with PVC-U pipe outlet DN/OD 315, locked, 0,5 m	500	362	862	50,47	32338

RECYFIX®NC 300

Accessories

End caps

End cap closed, galvanised, type 010



End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 010	-	360	360	1,87	49783
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 010	-	360	360	2,55	49791

RECYFIX®NC 300

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

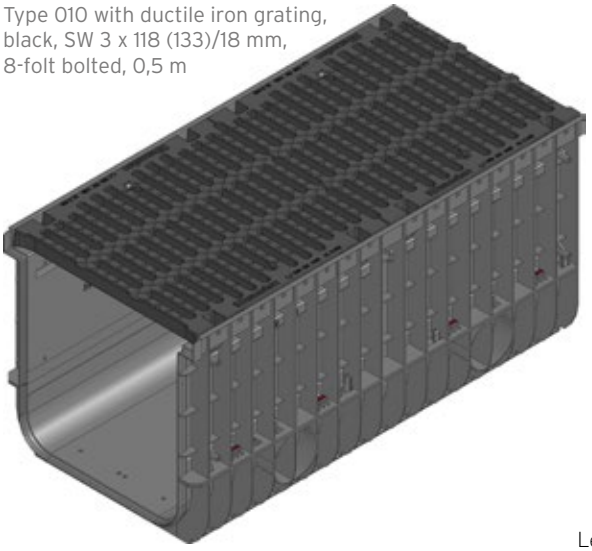
**Amount needed for Type 010: approx. 32 ml per joint

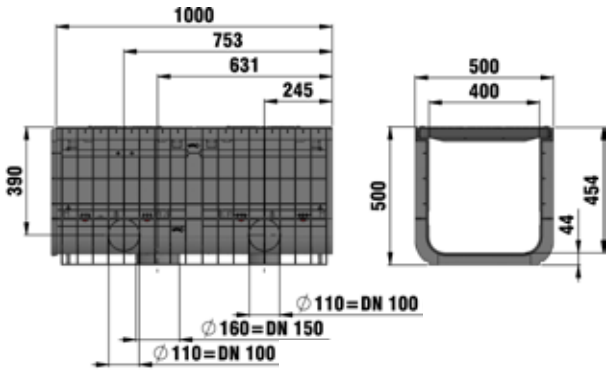
RECYFIX®NC 400

Combi article

RECYFIX®NC 400, class D 400

Type 010 with ductile iron grating, black, SW 3 x 118 (133)/18 mm, 8-folt bolted, 0,5 m





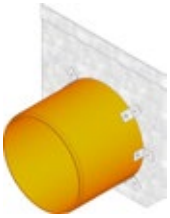
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating, black, SW 3 x 118 (133)/18 mm, 8-folt bolted, 0,5 m	1000	500	500	1640	1753	57,15	42421

RECYFIX®NC 400

Accessories

End caps

End cap closed, galvanised, type 010



End cap with horizontal PVC-U pipe outlet DN/OD 315, galvanised, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 010	-	500	498	3,79	42481
End cap closed, stainless steel, type 010	-	500	498	3,20	42482
End cap with horizontal PVC-U pipe outlet DN/OD 315, galvanised, type 010	-	500	498	4,87	42487
End cap with horizontal PVC-U pipe outlet DN/OD 315, stainless steel, type 010	-	500	498	4,87	42488

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

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

****Amount needed for Type 010: approx. 32 ml per joint**

RECYFIX MONOTEC

Drainage system for traffic, parking and commercial areas.

hauraton

RECYFIX MONOTEC

Drainage system for traffic, parking and commercial areas.

1 Requirements

Monolithic drainage channels* in traffic areas must:

- be permanently corrosion-resistant
- be secure against vandalism
- be maintenance-free and drain reliably
- satisfy aesthetic demands

2 Application areas

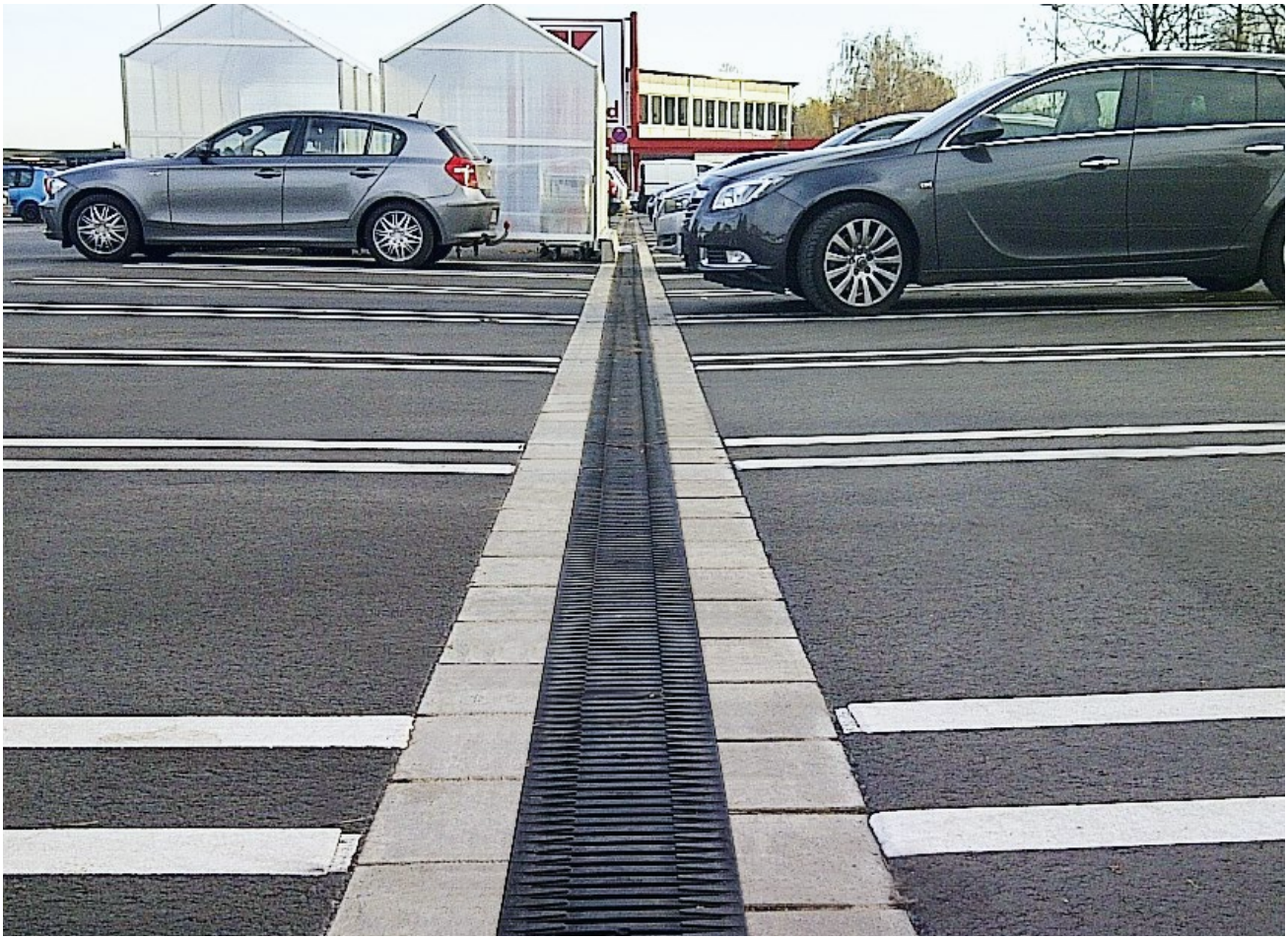
- parking areas
- market squares, public areas
- school playgrounds
- residential areas
- gas stations
- commercial areas

3 Solutions

Therefore, RECYFIX MONOTEC channels are especially suitable for draining parking and commercial areas:

- lightweight and easy processing for cost-effective installation
- channel made of specially resistant modified polypropylene
- leak-proof and chemical-resistant
- sturdy and unbreakable
- very quick to install

*Get more information about the Hightech-Manufacturing process on page 218.



Installation in asphalt surface

Installation in concrete surface

Installation in paving surfaces

AMAZON regional distribution centre, Doncaster, United Kingdom

Ideal for heavily-trafficked areas

YOUR BENEFITS WITH **RECYFIX** MONOTEC

VERY HIGH HYDRAULIC CAPACITY

- optimised inlet surface with **FIBRETEC** design
- high volume through slim channel construction
  Example:
  RECYFIX MONOTEC 200 - capacity 746 cm² ≙ 74,6 litre/metre

= PERFORMANCE ASSURED

UNBREAKABLE

- elastic and especially resistant material (PP)
- resistant to traffic volume and temperature differences in daily use

= QUALITY- & PERFORMANCE ASSURED

HIGH RESISTANCE

- high resistance to frost, de-icing salt and UV light
- withstands high temperature differences
- chemical-resistant

= QUALITY- & PERFORMANCE ASSURED

MONOLITHIC DRAINAGE CHANNEL FOR HIGHEST STABILITY

- manufactured with two parts, which are joined together into a monolithic channel in a mirror welding process. In the mirror welding process the joining surfaces are heated with heating elements (= mirror) and finally pressed together. All this is done without any additional connecting material. Afterwards, the connections are extremely reliable.
- vandal-proof
- permanently withstands frequent traffic

= QUALITY- & PERFORMANCE ASSURED

LOW MAINTENANCE

- easy cleaning by rinsing through the inspection box
- durable high-quality appearance

= TIME- & COST SAVINGS

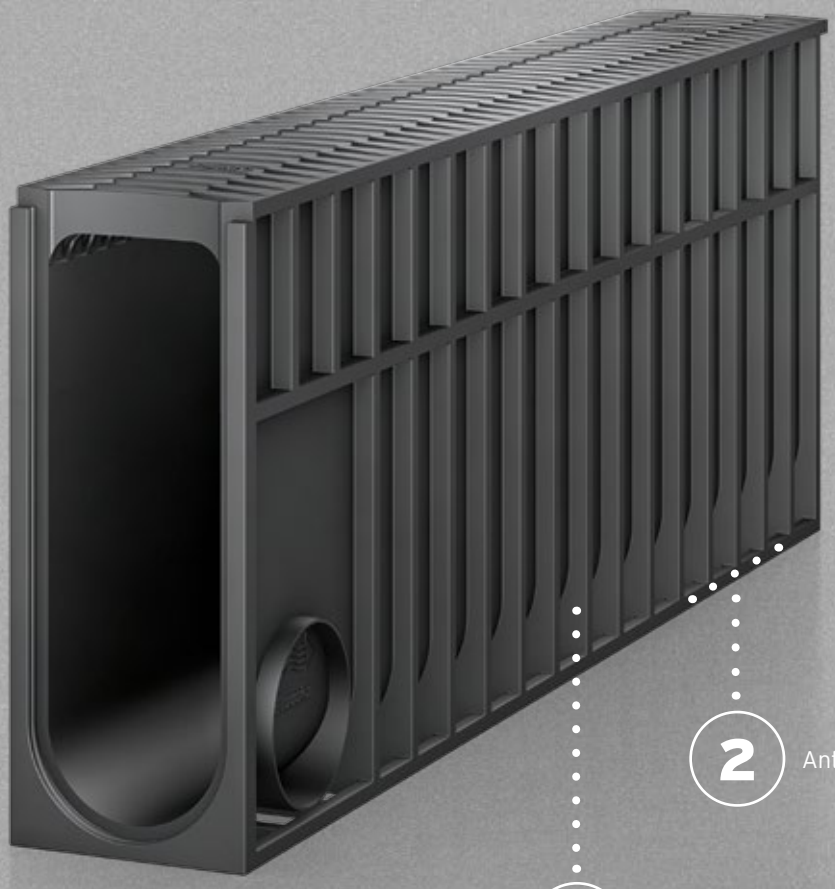
LOW WEIGHT ENSURES EASY HANDLING ON SITE

- significantly lighter than channels made of mineral material
- especially easy transport and fast installation
  Example: **RECYFIX** MONOTEC 200 - weight 16.30 kg

= TIME- & COST SAVINGS

IDEAL FOR ...

heavily frequented applications with high retention volume up to class D 400, such as supermarkets, car parks and petrol stations.



RECYFIX MONOTEC

Optimal hydraulic capacity through slim design.

The RECYFIX MONOTEC channel is made of highly resistant and unbreakable polypropylene. Therefore, a particularly slender design is possible which has a positive effect with regard to drainage capacity. The smallest model, with a nominal width of 100 mm and a height of 230 mm, already achieves a drainage cross-section of 190.5 cm². Comparable channels, made from other materials, must have much thicker sidewalls which significantly reduces the drainage cross-section.

The RECYFIX MONOTEC Channel range consists of 3 heights with a nominal width of 100 mm and one model with a nominal width of 200 mm. Long-term practical tests and computer-aided simulations lead to the same result: The RECYFIX MONOTEC accumulates heavy rainfall, provides a sufficient backwater reserve and drains large surfaces safely and reliably.

RECYFIX MONOTEC

Nominal size	Height	Drainage cross-section	**Volume/ Channel**
100 mm	230 mm	190.5 cm²	**19.1 l**
100 mm	280 mm	245.5 cm²	**24.6 l**
100 mm	380 mm	355.5 cm²	**35.6 l**
200 mm	450 mm	746.1 cm²	**74.6 l**

Maximum hydraulic capacity

The fiber-reinforced polypropylene material enables a slim channel design. As a result, a maximum hydraulic capacity is achieved.

NW 100, Type 230

NW 100, Type 280

NW 100, Type 380

NW 200, Type 450

NW 200, Type 450

Lower drainage capacity, up to 45%, with monolithic channels made from other materials

FIBRETEC slotted grating: Proven to make progress

In 2010, HAURATON invented the FIBRETEC slotted grating. This grating is specially designed for maximum hydraulic performance. Optimized inlet radii ensure that the largest amount of water is led into the channel within the shortest time. More than one million channels sold expresses its great popularity. Deliberately, the design has now been transferred to the RECYFIX MONOTEC. Along with the enormous volume of the channel, a product with the highest hydraulic demands has emerged – the perfect combination of water intake, retention and drainage.

Testing at HAURATON Hydraulic Center in Budapest

RECYFIX MONOTEC

Drainage system for traffic, parking and commercial areas.

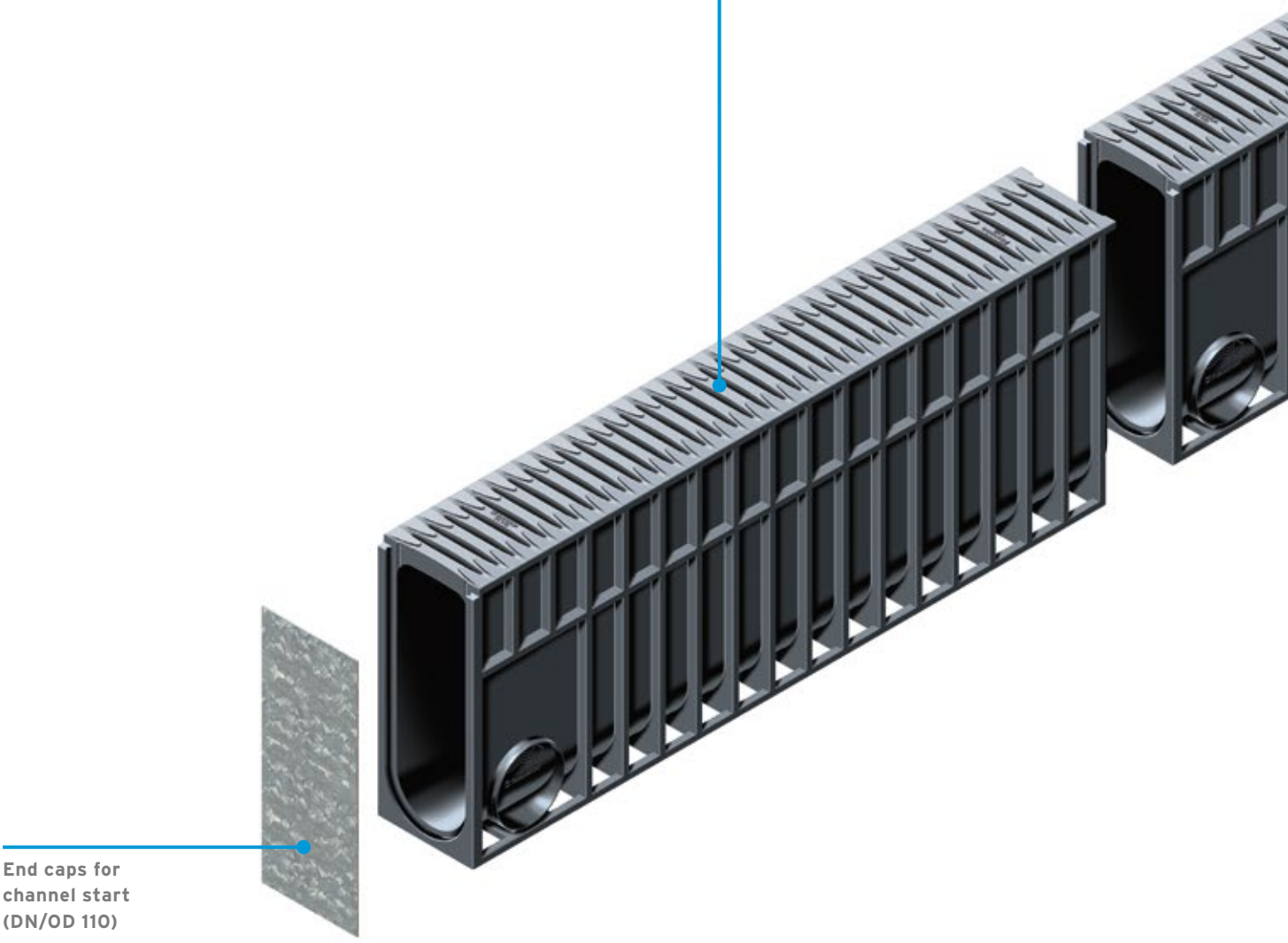
RECYFIX MONOTEC channels meet the requirements of DIN EN 1433 and are suitable for the following load classes:

Category C 250, Load Class 250 kN

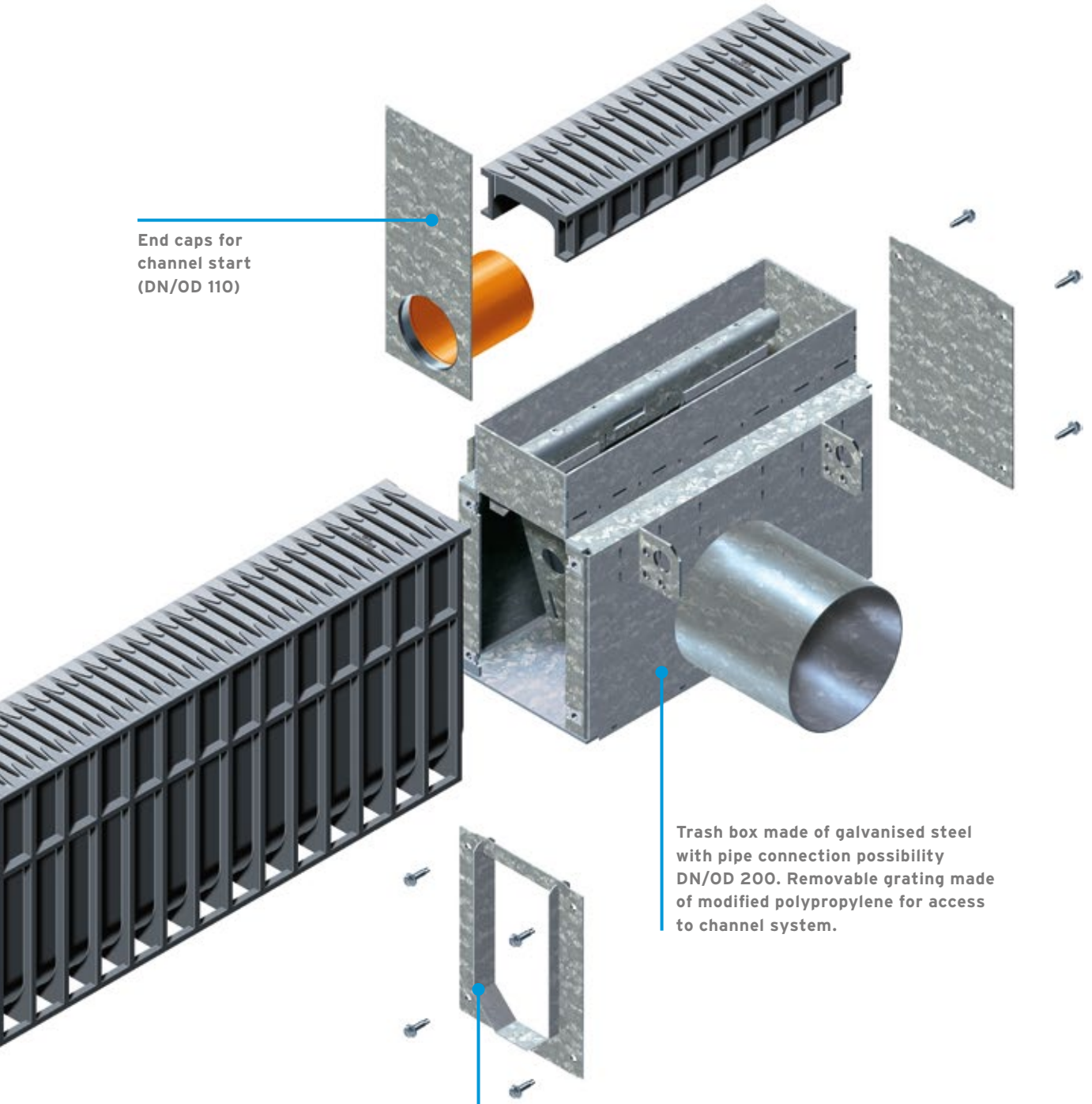
Category D 400, Load Class 400 kN

If in doubt, always select the higher class.

RECYFIX MONOTEC channels made of modified polypropylene, according to DIN EN 1433, CE-conform.



End caps for channel start (DN/OD 110)



End caps for channel start (DN/OD 110)

Trash box made of galvanised steel with pipe connection possibility DN/OD 200. Removable grating made of modified polypropylene for access to channel system.

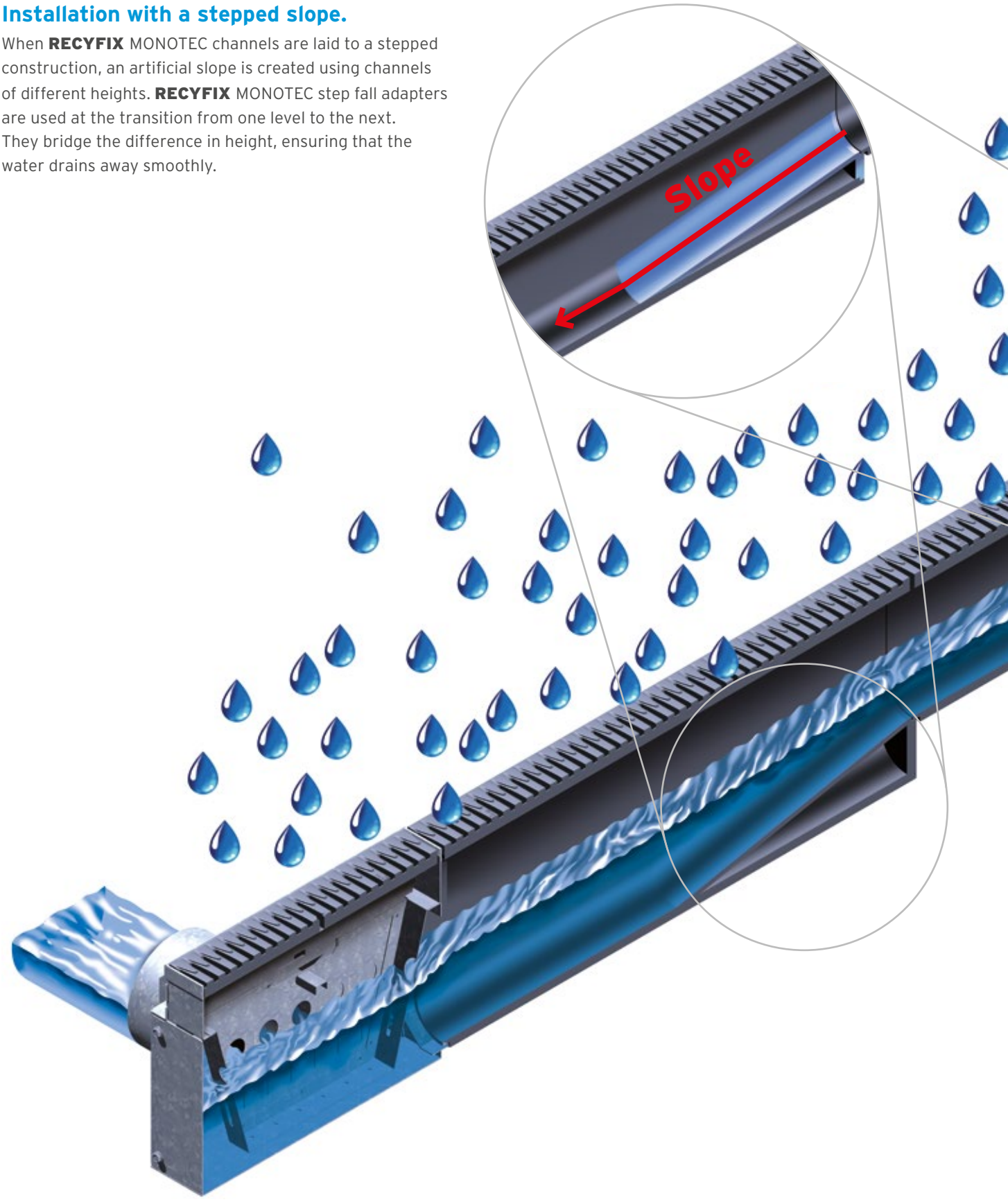
Connection plate for flexible connection of different channel types with the trash box and closing cap for the closing of trash box.

RECYFIX MONOTEC Step Fall

Reliable hydraulic performance for channel runs with a stepped slope.

Installation with a stepped slope.

When **RECYFIX** MONOTEC channels are laid to a stepped construction, an artificial slope is created using channels of different heights. **RECYFIX** MONOTEC step fall adapters are used at the transition from one level to the next. They bridge the difference in height, ensuring that the water drains away smoothly.

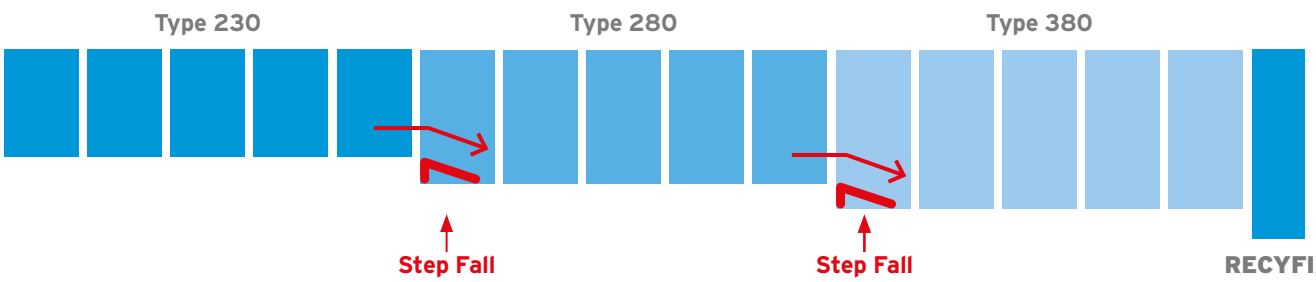


RECYFIX MONOTEC Step Fall Adapter, black, for channel runs with step fall

Step Fall Adapter for transition from type 230 to 280

Step Fall Adapter for transition from type 280 to 380

RECYFIX MONOTEC Channel 100:



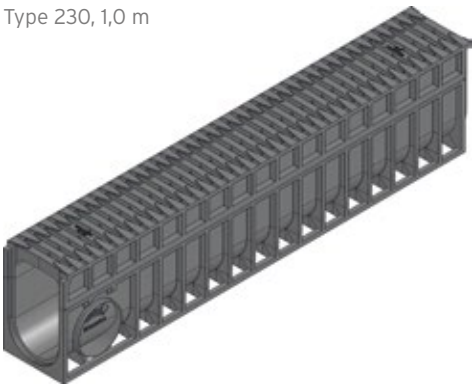
RECYFIX
MONOTEC 100
Trash box

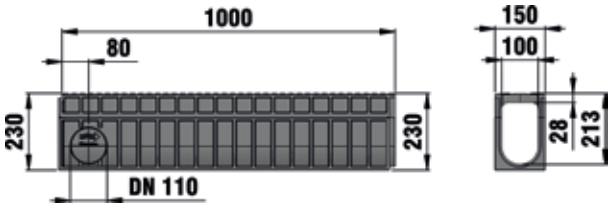
RECYFIX®MONOTEC 100

Monolithic channel

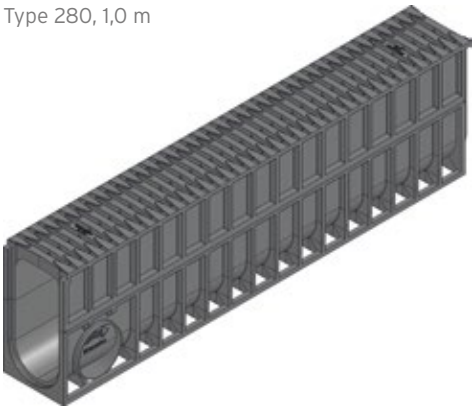
RECYFIX®MONOTEC 100, up to class D 400

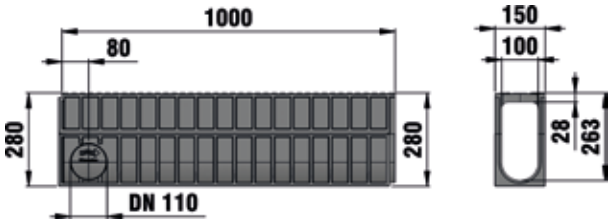
Type 230, 1,0 m



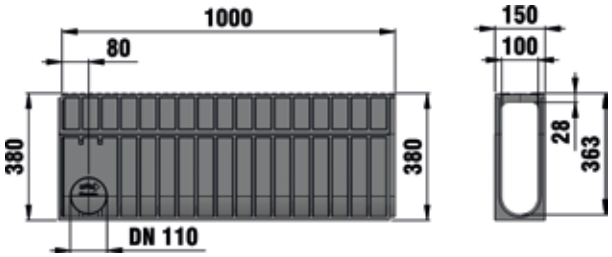


Type 280, 1,0 m





Type 380, 1,0 m



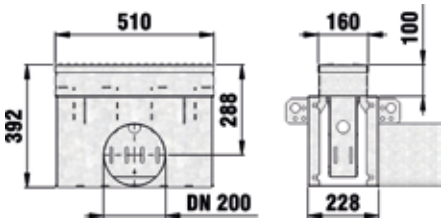
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 230, 1,0 m	1000	150	230	190	372	8,21	36000
Type 280, 1,0 m	1000	150	280	245	372	9,20	36005
Type 380, 1,0 m	1000	150	380	355	372	11,19	36015

RECYFIX®MONOTEC 100

Accessories

Trash boxes

Trash box
with galvanised bucket



Connection plate
with screw set, galvanised,
channel type 230

Closing cap
with screw set, galvanised,
for trash box/inspection box

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	510	160	392	29,50	36045
Looking handle with screw for protection against vandalism	28	117	14	0,07	36098
Connection plate with screw set, galvanised, channel type 230	-	216	283	1,06	36032
Connection plate with screw set, galvanised, channel type 280	-	216	283	1,02	36037
Connection plate with screw set, galvanised, channel type 380	-	216	283	0,92	36047
Closing cap with screw set, galvanised, for trash box/inspection box	-	216	283	0,95	36023

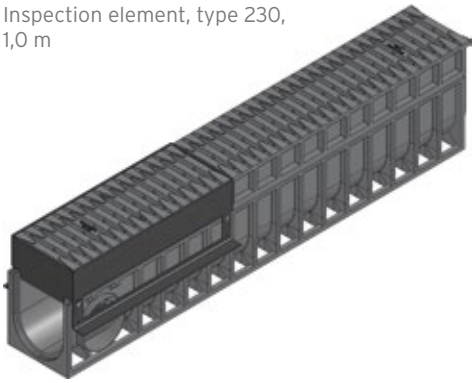
All trash and inspection boxes are factory-made with the end face open to enable a modular use for all application situations:
- **Option 1: one-sided channel connection: You will need 1 connection plate with the same channel height (= same type) and an closing cap.**
- **Option 2: two-sided channel connection: You will need 2 connection plates with the same channel height (= same type).**

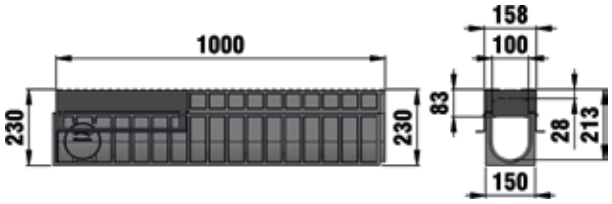
RECYFIX®MONOTEC 100

Accessories

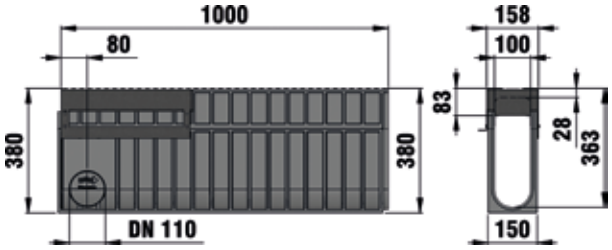
NEW Inspection elements

Inspection element, type 230, 1,0 m





Inspection element, type 380, for kerb installation, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Inspection element, type 230, 1,0 m	1000	158	230	130	351	10,89	36062
Inspection element, type 280, 1,0 m	1000	158	280	185	351	11,79	36063
Inspection element, type 380, 1,0 m	1000	158	380	295	351	13,72	36065
Inspection element, type 230, for kerb installation, 1,0 m	1000	158	230	130	351	11,12	36066
Inspection element, type 280, for kerb installation, 1,0 m	1000	158	280	185	351	12,11	36067
Inspection element, type 380, for kerb installation, 1,0 m	1000	158	380	295	351	14,10	36069

RECYFIX®MONOTEC 100

End caps

End cap closed, galvanised, type 230

End cap closed, galvanised, type 280

End cap closed, galvanised, type 380

End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 280

End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 380

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 230	-	150	224	0,53	36080
End cap closed, galvanised, type 280	-	150	274	0,65	36082
End cap closed, galvanised, type 380	-	150	374	0,88	36086
End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 230	-	150	224	0,66	36090
End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 280	-	150	274	0,78	36092
End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 380	-	150	374	1,01	36096

Further accessories

Step Fall Adapter for step slope, from type 230 to 280

Step Fall Adapter for step slope, from type 280 to 380

	Length mm	Width mm	Height mm	Weight kg	Item No.
Step Fall Adapter for step slope, from type 230 to 280	510	125	113	0,48	36070
Step Fall Adapter for step slope, from type 280 to 380	510	125	163	0,59	36071
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

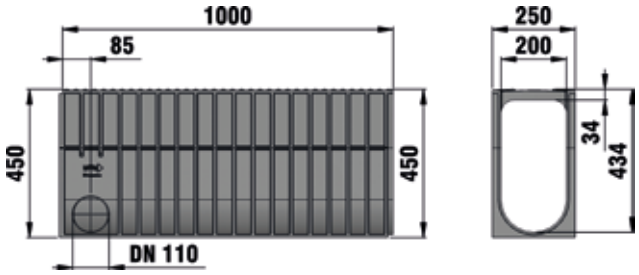
**Amount needed for Type 380: approx. 32 ml per joint

RECYFIX®MONOTEC 200

Monolithic channel

RECYFIX®MONOTEC 200, up to class D 400

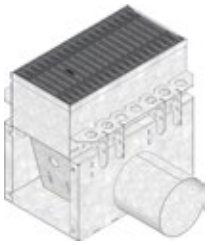
Type 450, 1,0 m



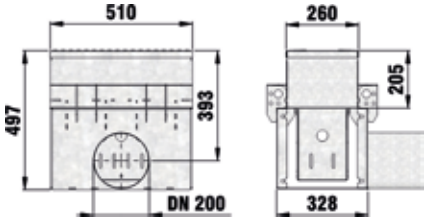
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 450, 1,0 m	1000	250	450	746	656	16,31	36215

Accessories

Trash boxes



Trash box
with galvanised bucket



Looking handle
with screw for protection
against vandalism

Connection plate
with screw set, galvanised,
channel type 450

Closing cap
with screw set, galvanised,
for trash box/inspection box

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	510	260	497	42,70	36245
Looking handle with screw for protection against vandalism	-	206	120	0,24	36298
Connection plate with screw set, galvanised, channel type 450	-	316	283	1,18	36247
Connection plate with screw set, galvanised, for RECYFIX MONOTEC 100 type 380	-	316	283	1,55	36147
Closing cap with screw set, galvanised, for trash box/inspection box	-	316	283	1,50	36223

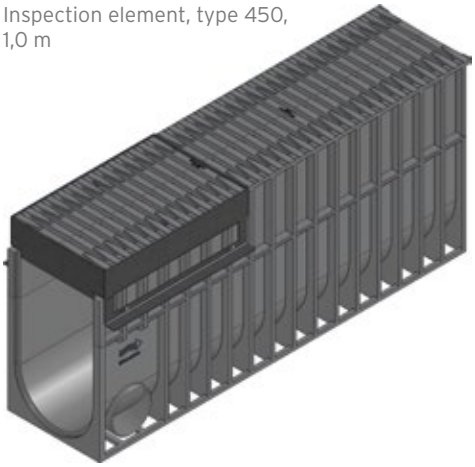
All trash and inspection boxes are factory-made with the end face open to enable a modular use for all application situations:
- **Option 1: one-sided channel connection: You will need 1 connection plate with the same channel height (= same type) and an closing cap.**
- **Option 2: two-sided channel connection: You will need 2 connection plates with the same channel height (= same type).**

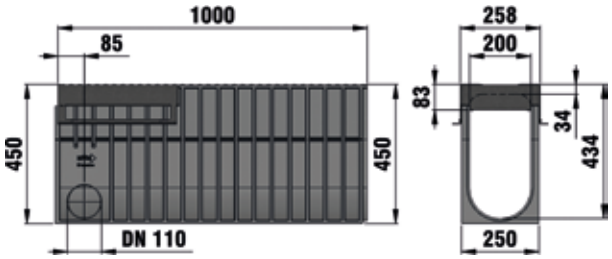
RECYFIX®MONOTEC 200

Accessories

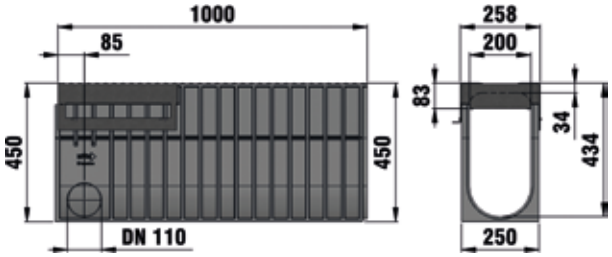
NEW Inspection elements

Inspection element, type 450, 1,0 m





Inspection element, type 450, for kerb installation, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Inspection element, type 450, 1,0 m	1000	258	450	648	307	19,69	36262
Inspection element, type 450, for kerb installation, 1,0 m	1000	258	450	648	307	19,22	36266

RECYFIX®MONOTEC 200

End caps

End cap closed, galvanised, type 450

End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 450

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 450	-	250	441	1,75	36286
End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 450	-	250	441	1,87	36296

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

****Amount needed for Type 450: approx. 42 ml per joint**

RECYFIX HICAP F

High capacity drainage system for the highest load category.

hauraton

Yas Marina Circuit, Abu Dhabi, U.A.E.

RECYFIX HICAP F

High capacity drainage system for the highest load category.

1 Requirements

Drainage system for extreme conditions with

- high hydraulic requirements
- high loads
- large areas
- ailing sewer systems

2 Application areas

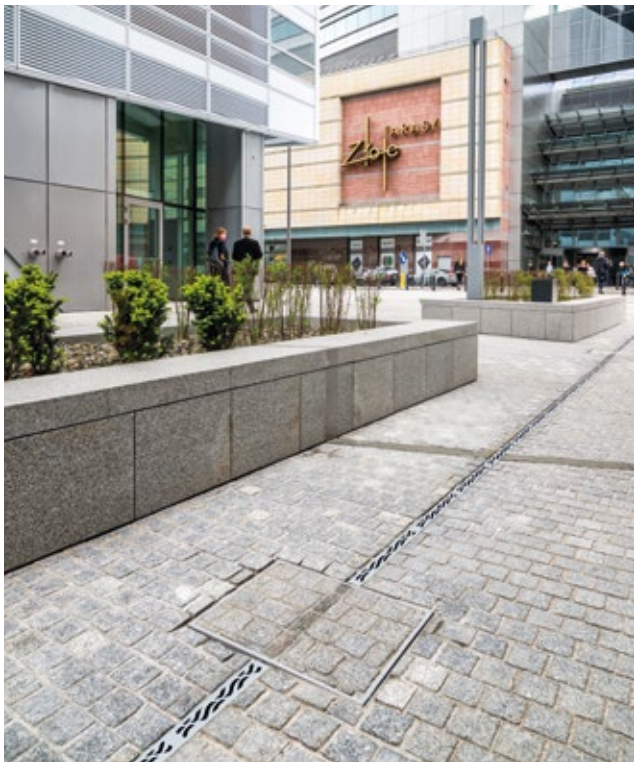
- parking areas
- supermarkets/shopping centres
- pedestrian areas
- airports
- industrial estates
- container terminals
- ports
- circuits and test tracks

3 Solutions

Special features of RECYFIX HICAP:

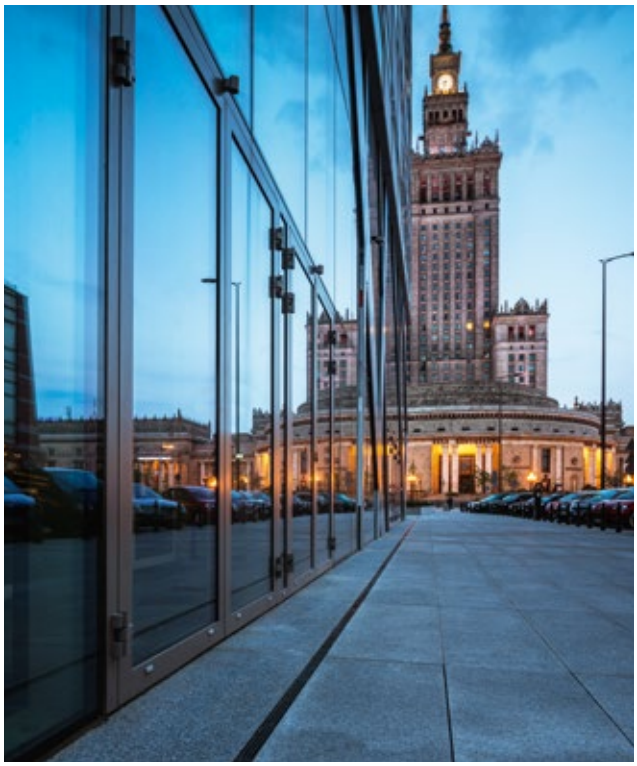
- drainage and retention in one component
- large selection of nominal widths
- for all loading classes and all common road surface finishes
- variety of variants:
  – stainless steel slot & design grating WAVE
  – ductile iron slots
- less manholes and outlets
- provides an uniform visual appearance also in lage projects
- no separate gratings
- no expensive pipe installations required
- high hydraulic capacity
- easy to maintain

Chopin Airport, Warsaw, Poland



Pedestrian area, Poland

Viettel company headquarters, Hanoi, Vietnam



Skyscraper ZLOTA 44 in Warsaw, Poland

Teesport Container Terminal, UK

RECYFIX HICAP F

Water drainage and retention.

Retention

The design of RECYFIX HICAP, channels is unique due to its high hydraulic efficiency which ensures additional retention capacity. The system simultaneously performs three tasks:

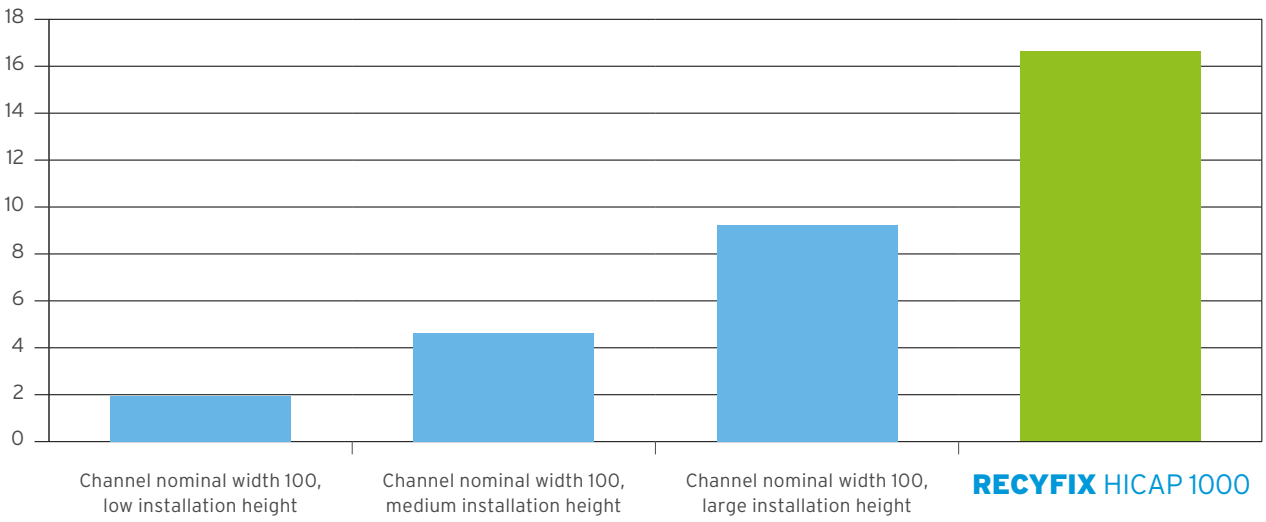
- drains water, even from large areas
- stores excessive amounts of water
- channels water to the discharge point

RECYFIX HICAP, eliminates the need for additional storage reservoirs.

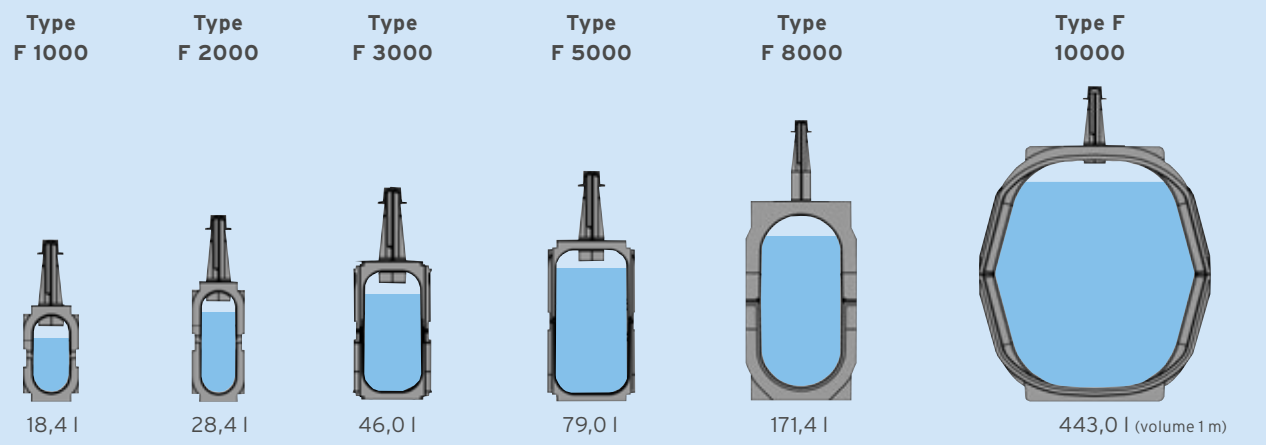
Modular design – low number of connections

RECYFIX HICAP, is so effective because large areas can be implemented with one single channel run. Starting with a nominal width of 100 mm it offers the option to expand up to 680 mm.
Drainage wells can be installed in any chosen location used for connecting channels to sewage systems or for connecting other drainage channels – it can also be used as a pumping well/chamber.

Comparison of flow capacity l/s



Range of **RECYFIX** HICAP



A practical example:

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

Logistics Centre Plovdiv, Bulgaria

Channel length: 356 m, divided:

- 66 m RECYFIX HICAP F 5000 Type 5300, slot 28 mm
- 136 m RECYFIX HICAP F 8000 Type 8300, slot 28 mm
- 154 m RECYFIX HICAP F 10000 Type 10300, slot 28 mm

Total drainage area: 10,730 m²
Runoff coefficient (specified by the planner): 0.85
Rain yield factor (specified by the planner): 300 l/s ha

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

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

RECYFIX HICAP F

Water drainage and retention.

Sample calculation

RECYFIX HICAP F, ductile iron mesh 13/28

The hydraulic advantages of RECYFIX HICAP channels can be demonstrated by the following calculation:

Inlet capacity of a ductile iron mesh 13/28 mm grating, determined at Prague Technical University: **4.0 l/s per metre**

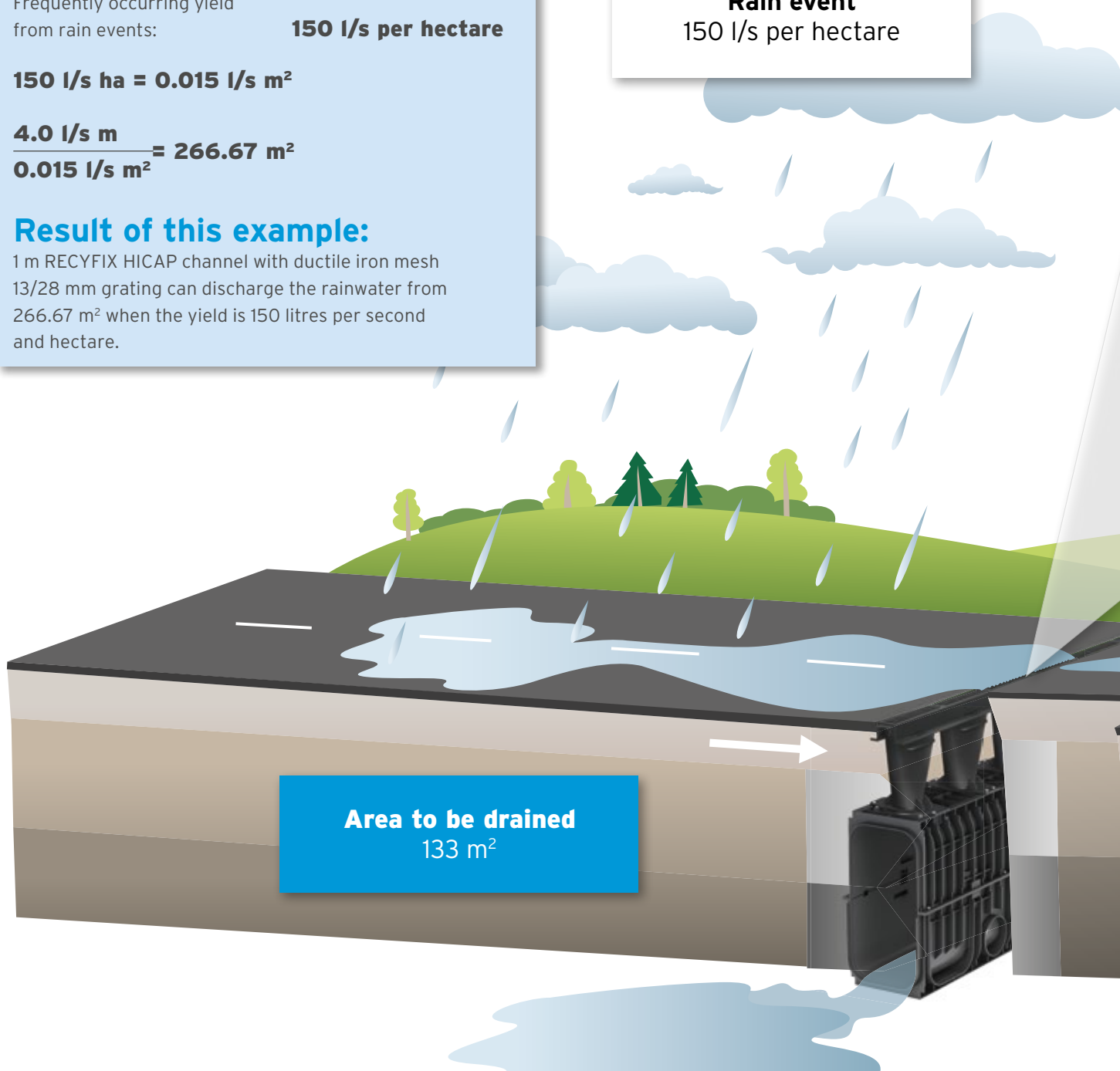
Frequently occurring yield from rain events: **150 l/s per hectare**

150 l/s ha = 0.015 l/s m²

$$\frac{\textbf{4.0 l/s m}}{\textbf{0.015 l/s m}^2} = \textbf{266.67 m}^2$$

Result of this example:

1 m RECYFIX HICAP channel with ductile iron mesh 13/28 mm grating can discharge the rainwater from 266.67 m² when the yield is 150 litres per second and hectare.

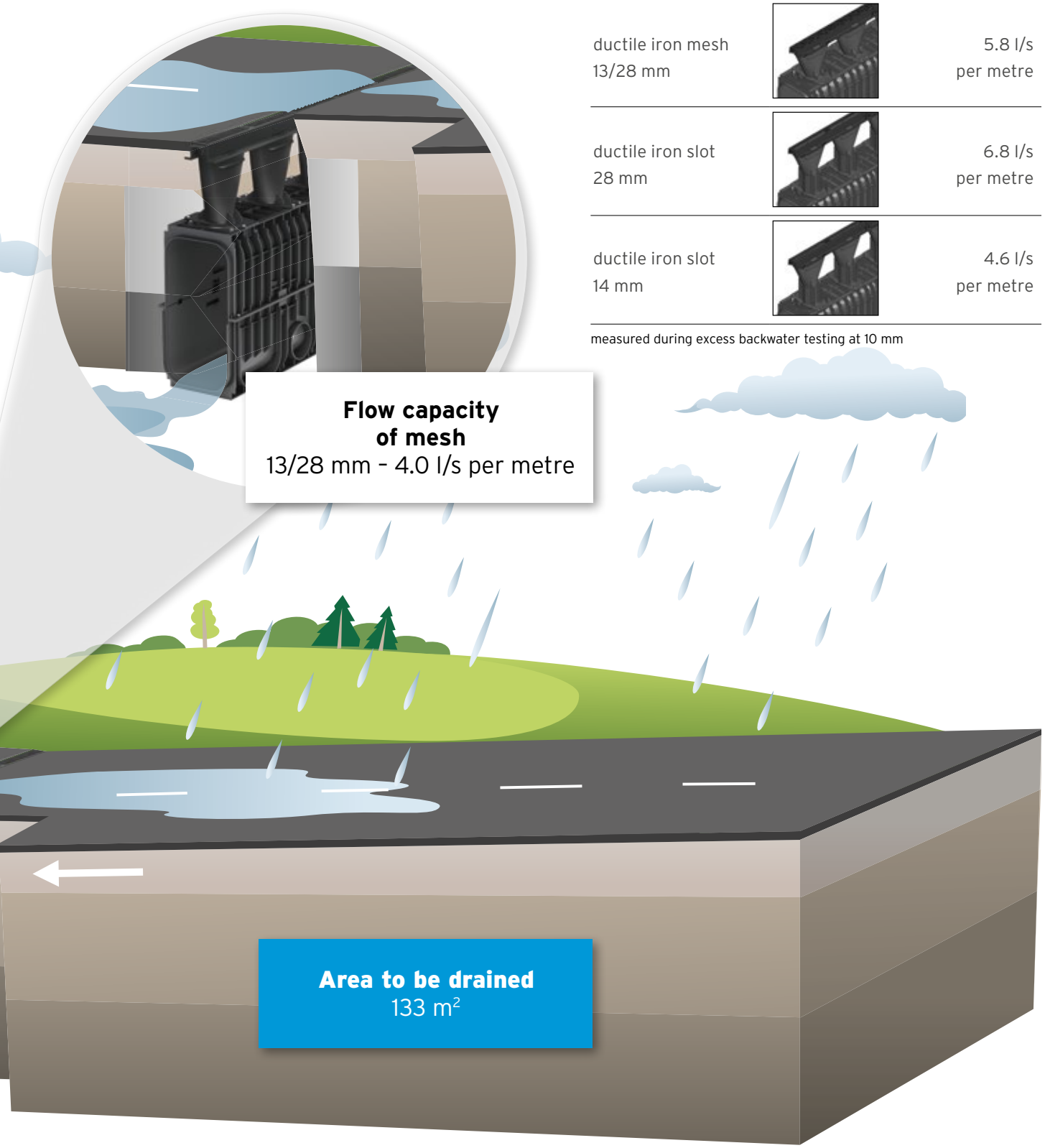


Inlet capacity of **RECYFIX** HICAP F

(applies to all nominal widths)

stainless steel slot 24 mm		5.8 l/s per metre
stainless steel design grating WAVE 6 mm		2.3 l/s per metre
ductile iron slot 6 mm		3.1 l/s per metre
ductile iron mesh 13/28 mm		5.8 l/s per metre
ductile iron slot 28 mm		6.8 l/s per metre
ductile iron slot 14 mm		4.6 l/s per metre

measured during excess backwater testing at 10 mm



YOUR BENEFITS WITH **RECYFIX** HICAP F

FAST AND EASY INSTALLATION

- easy to handle and install without heavy lifting equipment
- innovative Link&Lock grating connection for easy and quick straight channel alignment
- integrated tongue and groove joint
- PP channel body can be cut, drilled and worked easily on site
- reduced pipe-work installations

= TIME- & COST SAVINGS

VARIOUS CONNECTION POSSIBILITIES

- end cap with channel connection option
- simple possibility for preparation of corner and T-connections in connection with the trash box
- step-fall connector for connecting the next nominal width
- various pre-formed pipe-connections for added flexibility

= DESIGN FLEXIBILITY / PERFORMANCE ASSURED

INDIVIDUAL SOLUTIONS

- accommodates radius installation
- wide range of uniform design gratings in KTL ('cathodic dip' coated) and stainless steel
- configurable as 'constant-depth' or 'stepped-fall'
- cable and pipe installations can be laid through throat voids between funnels
- ductile iron top on the surface can be interrupted while channels continue underground

= DESIGN FLEXIBILITY

HIGH RESISTANCE

- high-level resistance to fuels/oils, frost, salt and UV-rays
- withstands high temperature differences
- fit-for-purpose in climate temperatures ranging from minus - 50 °C to + 80 °C and more
- gratings in spheroidal ductile iron (KTL 'cathodic dip' coated); for high impact/corrosion resistance

= QUALITY ASSURED & LONGEVITY

LARGE RETENTION VOLUME

- drainage and retention in one component
- high capacity and back-pressure capacity due to a variety of nominal widths
- fewer chamber and pipe connections required

= PERFORMANCE ASSURED / COST SAVINGS

HIGH-GRADE MATERIAL

- top inlet made of high-quality ductile iron → much higher tensile and compressive strength than channels made of polymer/resin concrete
- high-grade **RECYFIX** channel components from very light and almost unbreakable material
- 100 % recycled PP composite body (and 100 % recyclable) for full environmental standards compliance
- smooth inner surface for superior flow characteristics
- 0 % water absorption

= QUALITY- & PERFORMANCE ASSURED

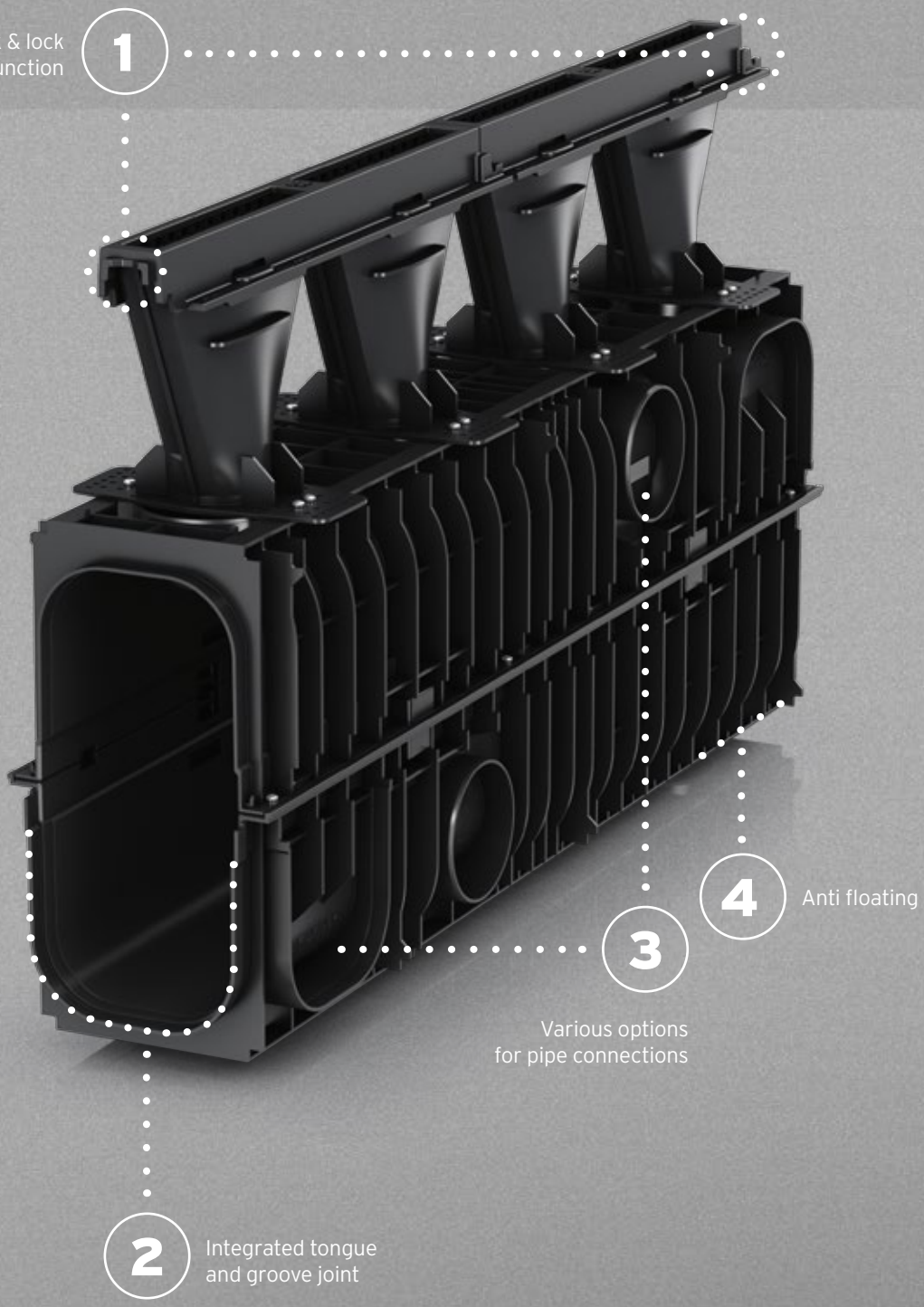
HIGH STABILITY

- designed for superior resistance to dynamic forces and loads up to class F 900
- torsion-free ribs and throat voids for additional structural integrity and rigidity

= PERFORMANCE ASSURED

IDEAL FOR ...

drainage and retention for the highest load areas, such as airports, industrial estates and container terminals.

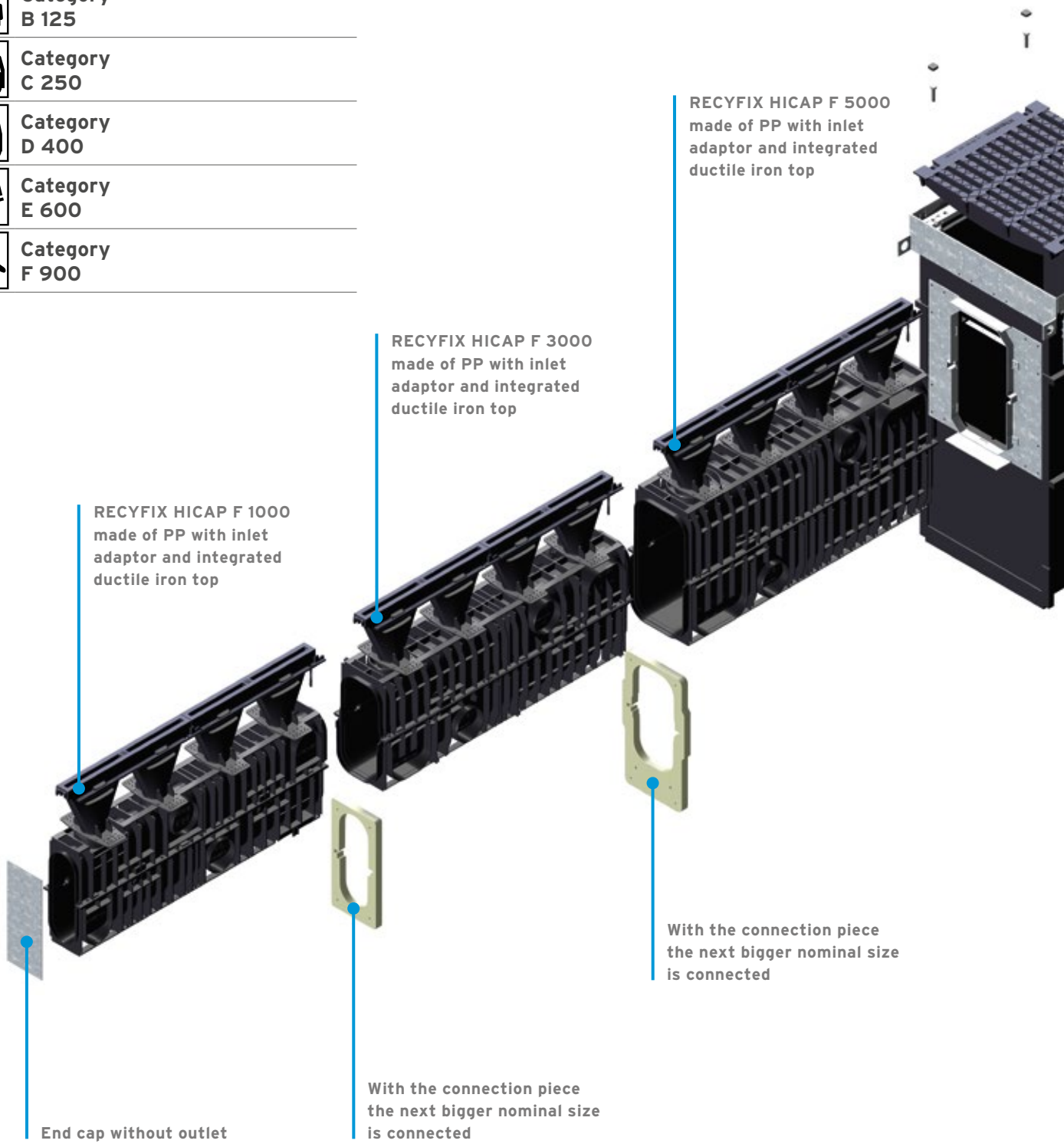


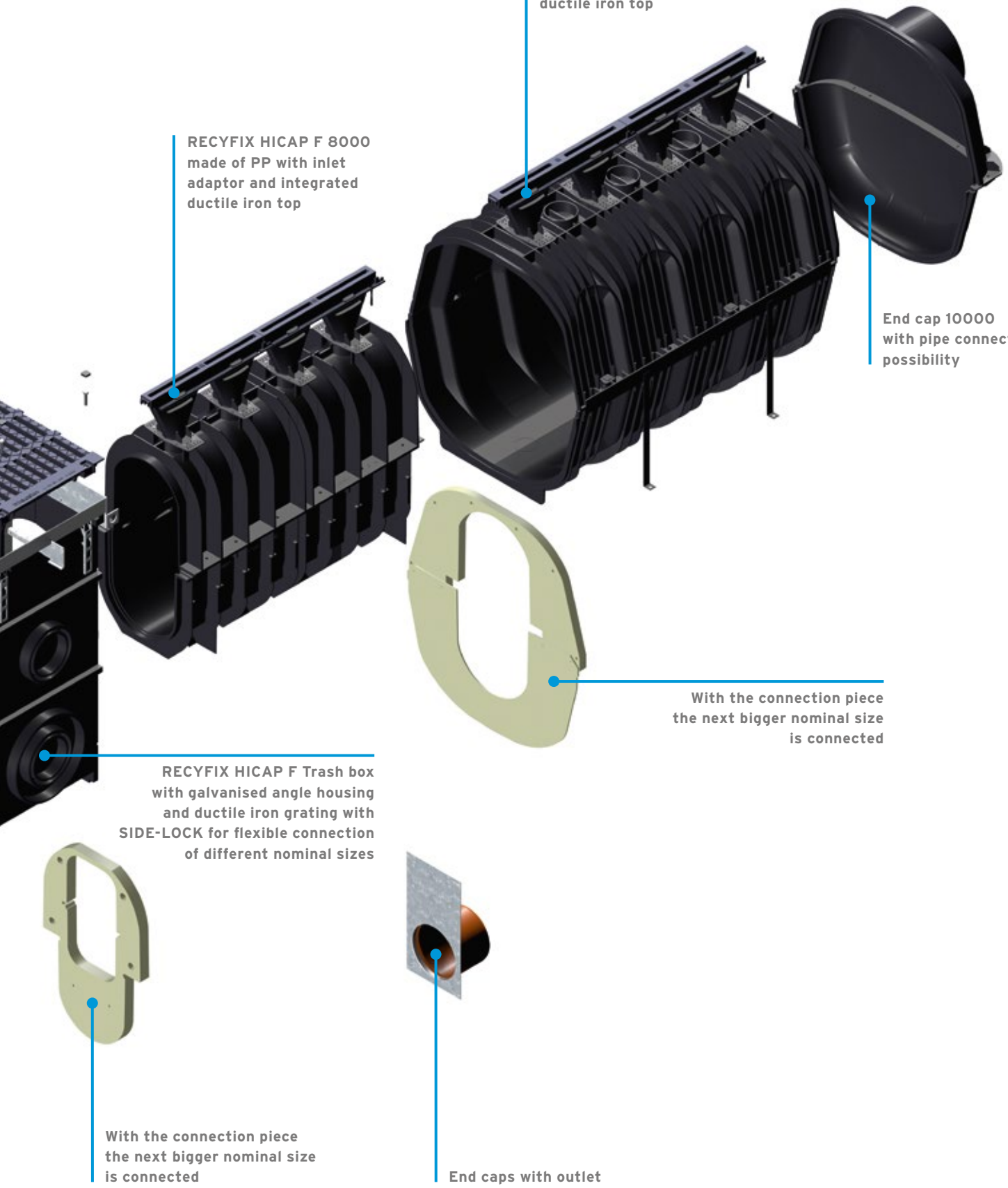
RECYFIX HICAP F

High capacity drainage system for the highest load category.

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

	Category A 15
	Category B 125
	Category C 250
	Category D 400
	Category E 600
	Category F 900




RECYFIX HICAP F 10000
made of PP with inlet
adaptor and integrated
ductile iron top
RECYFIX HICAP F 8000
made of PP with inlet
adaptor and integrated
ductile iron top
End cap 10000
with pipe connection
possibility
With the connection piece
the next bigger nominal size
is connected
RECYFIX HICAP F Trash box
with galvanised angle housing
and ductile iron grating with
SIDE-LOCK for flexible connection
of different nominal sizes
With the connection piece
the next bigger nominal size
is connected
End caps with outlet

RECYFIX HICAP F

Effectively drained - modularly built.
Drainage and retention system for larger areas.

Report from the field:
RECYFIX HICAP F channels for Heathrow Airport, London

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

At the southern section of the airport the British Airways service park was expanded. The construction site abutted right on the runway and taxiway. The demands on the new service site were immense: here airplanes of all types and sizes pass - including the Airbus A380, which was also a main reason for the reconstruction. The aircraft tugs alone weigh 80 tons and, just as the airplanes, drive and turn on the traffic areas. The demands on the drainage systems are accordingly high.

Project progress

In 1999 BAA was supplied with FASERFIX SUPER channels for the Gatwick airport and installed in the British Airways hangars and Concorde maintenance hangars. One year later, FASERFIX SUPER KS 100 channels were delivered to London City Airport. The assigned engineering office was very satisfied with the quality and service. In 2003 BAA broached the topic of installation and handling of drainage systems. The main topic of the discussions was the extreme weight of the products and the associated high employment of machines during installation.

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

RECYFIX HICAP F **- eco-friendly and 'easy to handle'**

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

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

Installed items

- 380 m RECYFIX HICAP F 8000
- 100 m RECYFIX HICAP F 5000
- 100 m RECYFIX HICAP F 3000

Lightweight elements, installed by one single worker.

Other examples of **RECYFIX** HICAP F

RECYFIX HICAP F

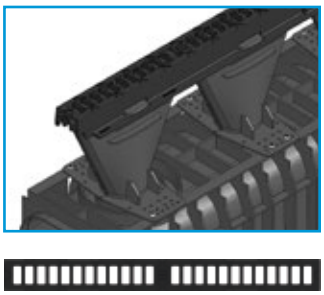
High capacity drainage system for the highest load category.

Inlet slots of **RECYFIX** HICAP F **system**

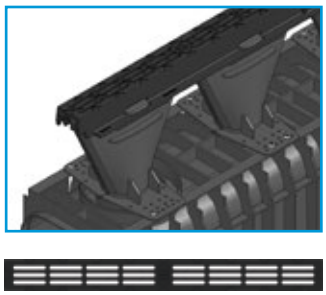
System RECYFIX HICAP F offers a wide selection of inlet slots.

- slots are joined in an innovative way to ensure stability and facilitate the installation process
- wide range of design solutions provides designers with many customization options for planned investments.
- all standard inlet slots are protected by KTL coating which prevents oxidation of iron and ensures long term preservation of their black colour.
- galvanized iron grating is also available in silver colour.
- top-class aesthetics when using stainless steel gratings.

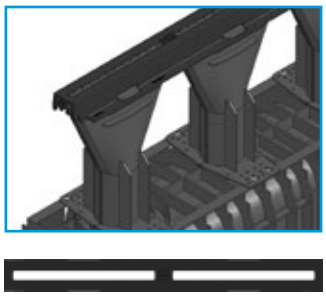
Ductile iron gratings



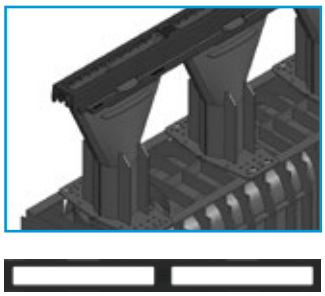
Slot 13/28 mm
- KTL coating
- slot size 13 x 28 mm
- intake cross-sect 172 cm²/m
- application: **road surfaces**



Slot 6 mm
- KTL coating
- slot size 5 x 51 mm
- intake cross-sect 154 cm²/m
- application: **pedestrian traffic**



Slot 14 mm
- KTL coating
- slot size 14 x 221 mm
- intake cross-sect 124 cm²/m
- application: **industrial areas**



Slot 28 mm
- KTL coating
- slot size 28 x 221 mm
- intake cross-sect. 248 cm²/m
- application: **industrial areas**

Stainless steel gratings

Slot 24 mm
- slot size 24 x 221 mm
- intake cross-sect 211 cm²/m
- application: **industrial areas**

Design grating WAVE 6 mm
- maximum slot width 6,5 mm
- intake cross-sect 78 cm²/m
- application: **prestigious areas/pedestrian areas**

Discontinuous design

Inlet elements don't have to be installed on every channel's body. The draining line is continuous under the surface, but its top part may be covered.

Customized solutions

All elements of the system can be adapted to the individual requirements and building conditions of a given project. Both the height of the channels and the preparation of special solutions can be adjusted:

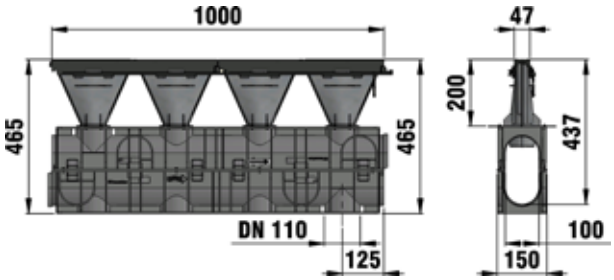
- gratings design (individual pattern of stainless steel inlet slot),
- covers for trash boxes,
- or angular connections of channels.

Special solution for Bałtyk Tower in Pozna.

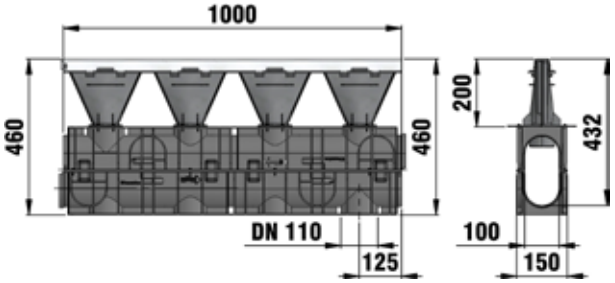
RECYFIX®HICAP®F 1000

RECYFIX®HICAP®F 1000 up to load class D 400

Type 1200, ductile iron slot 6 mm, 1,0 m



Type 1200, stainless steel design grating WAVE 6 mm, 1,0 m

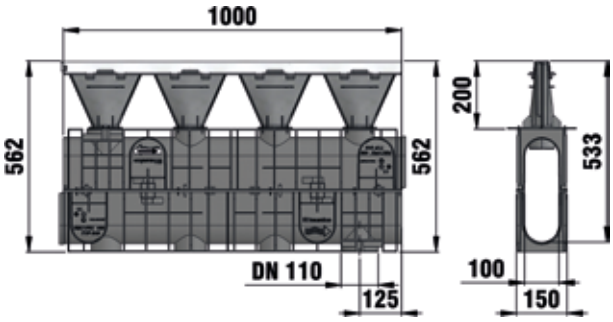


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 1200, ductile iron slot 6 mm, 1,0 m	1000	150	465	184	129	200	10,75	13000
Type 1200, stainless steel design grating WAVE 6 mm, 1,0 m	1000	150	460	184	44	200	8,70	13026

RECYFIX®HICAP®F 1000

RECYFIX®HICAP®F 1000 up to load class E 600

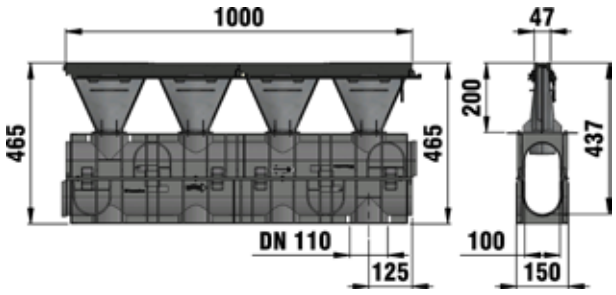
Type 1200, stainless steel slot 24 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 1200, stainless steel slot 24 mm, 1,0 m	1000	150	460	184	211	200	8,50	13029

RECYFIX®HICAP®F 1000 up to load class F 900

Type 1200, ductile iron slot 28 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 1200, ductile iron mesh 13/28 mm, 1,0 m	1000	150	465	184	172	200	10,75	13025
Type 1200, ductile iron slot 28 mm, 1,0 m	1000	150	465	184	248	200	9,91	13035
Type 1200, ductile iron slot 14 mm, 1,0 m	1000	150	465	184	124	200	10,75	13023

RECYFIX®HICAP®F 1000

RECYFIX®HICAP®F 1000, Accessories

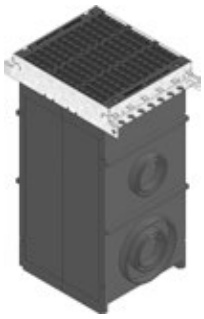
End cap closed, galvanised, type 1000

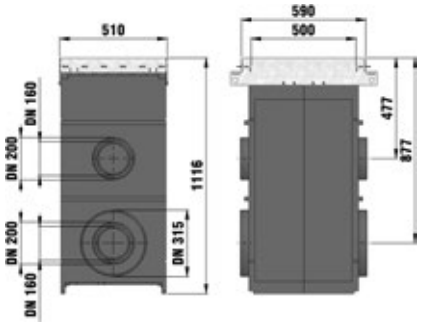
End cap with PVC-U pipe outlet DN/OD 110, galvanised, type 1000

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 1000	-	140	250	0,54	13013
End cap with PVC-U pipe outlet DN/OD 110, galvanised, type 1000	-	140	250	1,20	13018

RECYFIX®HICAP®F 1000

NEW RECYFIX®HICAP®F Trash boxes





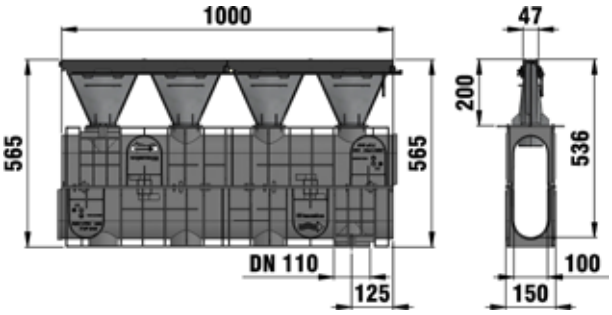
Trash box with ductile iron grating
SW 3 x 140/20 mm, class E 600,
up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500	32191
Trash box with ductile iron solid grating, class E 600, up to type 8000	510	590	1116	103,50	16505	32192
Trash box with ductile iron grating SW 3 x 140/20 mm, class F 900, up to type 8000	510	590	1116	101,84	32695	32696
Trash box connector incl. assembling, RECYFIX HICAP 1000	-	-	-	2,73	881	-
Shaft for channel connection up to type 10000	1120	1120	880	54,00	32000	-
Compensating ring, class D 400	608	608	110	16,18	32885	-
Compensating ring, class F 900	608	608	210	20,98	32001	-
Shaft cover, class D 400	850	850	100	105,00	32886	-
Shaft cover, class F 900	850	850	-	-	32167	-
Adapter plate for shaft, type 1000	-	590	268	5,26	32906	-

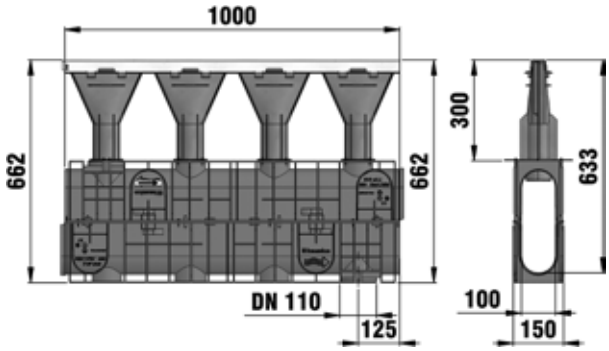
RECYFIX®HICAP®F 2000

RECYFIX®HICAP®F 2000 up to load class D 400

Type 2200, ductile iron slot 6 mm, 1,0 m



Type 2200, stainless steel design grating WAVE 6 mm, 1,0 m

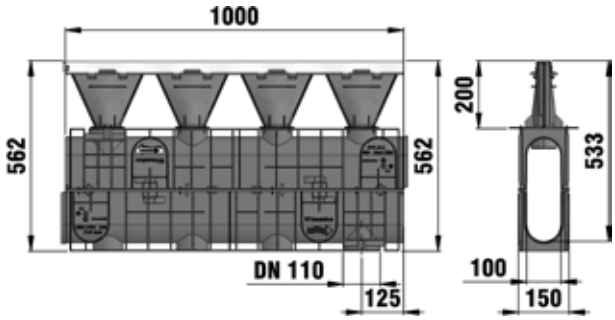


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 2200, ductile iron slot 6 mm, 1,0 m	1000	150	565	284	129	200	13,20	13010
Type 2200, stainless steel design grating WAVE 6 mm, 1,0 m	1000	150	562	284	44	200	10,41	13022

RECYFIX®HICAP®F 2000

RECYFIX®HICAP®F 2000 up to load class E 600

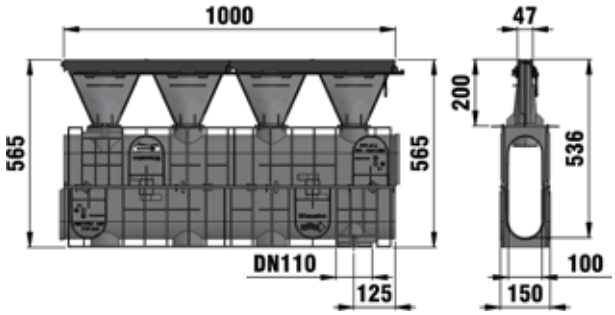
Type 2200, stainless steel slot 24 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 2200, stainless steel slot 24 mm, 1,0 m	1000	150	562	284	211	200	10,21	13024

RECYFIX®HICAP®F 2000 up to load class F 900

Type 2200, ductile iron mesh 13/28 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 2200, ductile iron mesh 13/28 mm, 1,0 m	1000	150	565	284	168	200	13,10	13020
Type 2200, ductile iron slot 28 mm, 1,0 m	1000	150	565	284	247	200	11,14	13030
Type 2200, ductile iron slot 14 mm, 1,0 m	1000	150	565	284	123	200	11,51	13028

RECYFIX®HICAP®F 2000

RECYFIX®HICAP®F 2000, Accessories

End cap closed, galvanised, type 2000

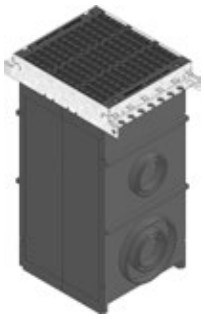
End cap with PVC-U pipe outlet DN/OD 110, galvanised, type 2000

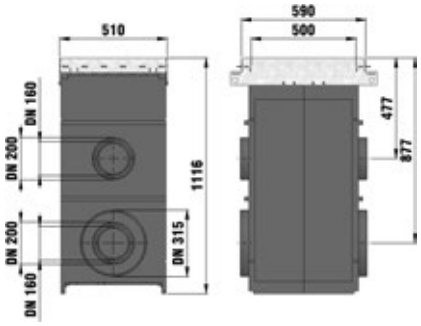
Step-fall ramp, stainless steel, from RECYFIX HICAP 2000 to RECYFIX HICAP 1000

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 2000	-	140	350	0,77	13012
End cap with PVC-U pipe outlet DN/OD 110, galvanised, type 2000	-	140	350	2,00	13015
Step-fall connector from RECYFIX HICAP 2000 to RECYFIX HICAP 1000	-	179	362	1,00	13019
Step-fall ramp, stainless steel, from RECYFIX HICAP 2000 to RECYFIX HICAP 1000	99	97	95	0,25	13195

RECYFIX®HICAP®F 2000

NEW RECYFIX®HICAP®F Trash boxes





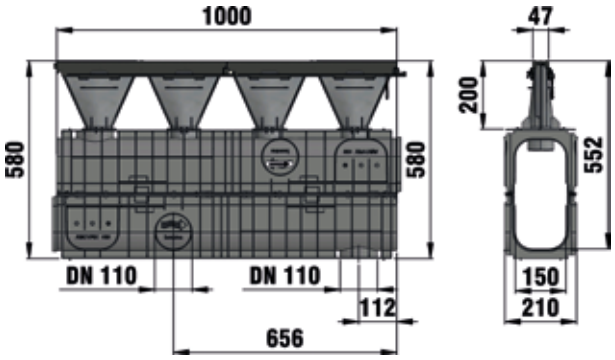
Trash box with ductile iron grating
SW 3 x 140/20 mm, class E 600,
up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500	32191
Trash box with ductile iron solid grating, class E 600, up to type 8000	510	590	1116	103,50	16505	32192
Trash box with ductile iron grating SW 3 x 140/20 mm, class F 900, up to type 8000	510	590	1116	101,84	32695	32696
Trash box connector incl. assembling, RECYFIX HICAP 2000	-	-	-	4,10	882	-
Shaft for channel connection up to type 10000	1120	1120	880	54,00	32000	-
Compensating ring, class D 400	608	608	110	16,18	32885	-
Compensating ring, class F 900	608	608	210	20,98	32001	-
Shaft cover, class D 400	850	850	100	105,00	32886	-
Shaft cover, class F 900	850	850	-	-	32167	-
Adapter plate for shaft, type 2000	-	590	370	6,12	32907	-

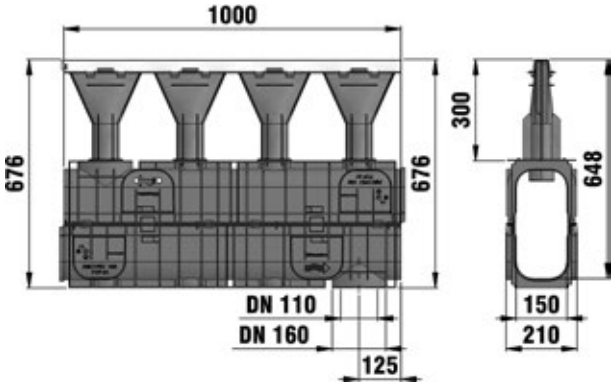
RECYFIX®HICAP®F 3000

RECYFIX®HICAP®F 3000 up to load class D 400

Type 3200, ductile iron slot 6 mm, 1,0 m



Type 3200, stainless steel design grating WAVE 6 mm, 1,0 m

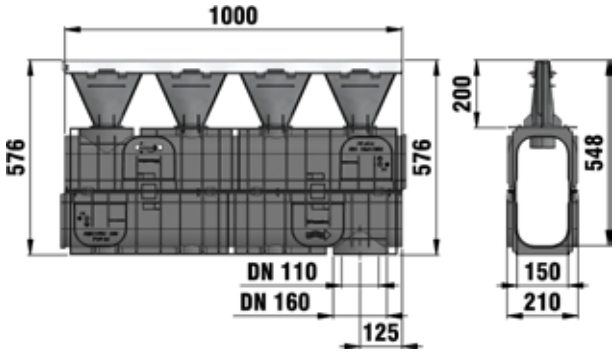


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 3200, ductile iron slot 6 mm, 1,0 m	1000	210	580	460	129	200	12,50	13210
Type 3200, stainless steel design grating WAVE 6 mm, 1,0 m	1000	210	576	460	44	200	10,43	13222

RECYFIX®HICAP®F 3000

RECYFIX®HICAP®F 3000 up to load class E 600

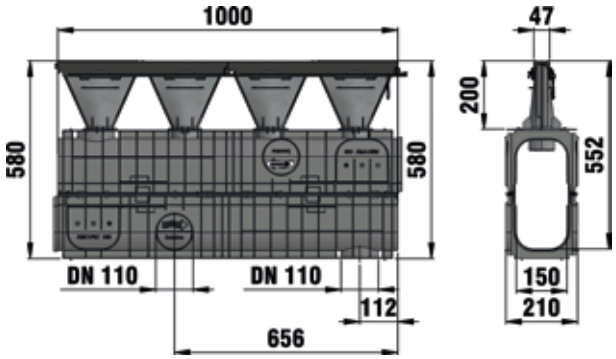
Type 3200, stainless steel slot 24 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 3200, stainless steel slot 24 mm, 1,0 m	1000	210	576	460	211	200	10,23	13224

RECYFIX®HICAP®F 3000 up to load class F 900

Type 3200, ductile iron mesh 13/28 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 3200, ductile iron mesh 13/28 mm, 1,0 m	1000	210	580	460	172	200	12,40	13220
Type 3200, ductile iron slot 28 mm, 1,0 m	1000	210	580	460	248	200	11,29	13230
Type 3200, ductile iron slot 14 mm, 1,0 m	1000	210	580	460	124	200	12,00	13225

RECYFIX®HICAP®F 3000

RECYFIX®HICAP®F 3000, Accessories

End cap closed, galvanised, type 3000

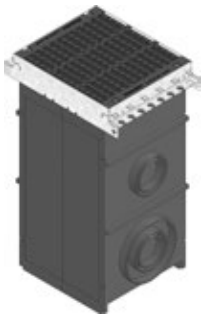
End cap with PVC-U pipe outlet DN/OD 160, galvanised, type 3000

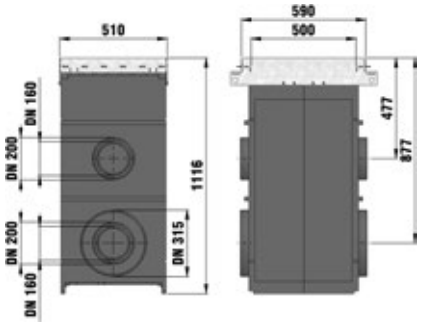
Step-fall connector from RECYFIX HICAP 3000 to RECYFIX HICAP 2000

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 3000	-	190	370	1,10	13212
End cap with PVC-U pipe outlet DN/OD 160, galvanised, type 3000	-	190	370	2,40	13215
Step-fall connector from RECYFIX HICAP 3000 to RECYFIX HICAP 2000	-	179	376	2,00	13017

RECYFIX®HICAP®F 3000

NEW RECYFIX®HICAP®F Trash boxes





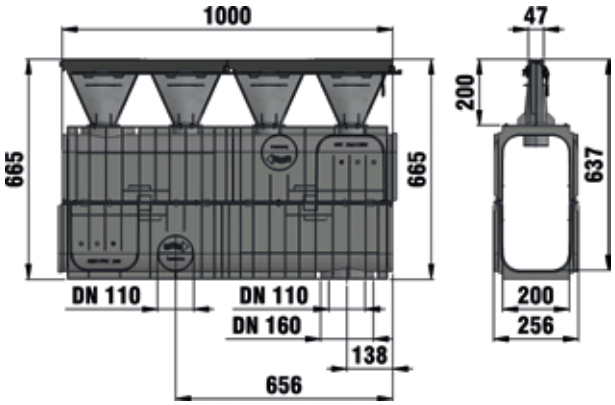
Trash box with ductile iron grating
SW 3 x 140/20 mm, class E 600,
up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500	32191
Trash box with ductile iron solid grating, class E 600, up to type 8000	510	590	1116	103,50	16505	32192
Trash box with ductile iron grating SW 3 x 140/20 mm, class F 900, up to type 8000	510	590	1116	101,84	32695	32696
Trash box connector incl. assembling, RECYFIX HICAP 3000	-	-	-	3,90	884	-
Shaft for channel connection up to type 10000	1120	1120	880	54,00	32000	-
Compensating ring, class D 400	608	608	110	16,18	32885	-
Compensating ring, class F 900	608	608	210	20,98	32001	-
Shaft cover, class D 400	850	850	100	105,00	32886	-
Shaft cover, class F 900	850	850	-	-	32167	-
Adapter plate for shaft, type 3000	-	590	384	5,70	32908	-

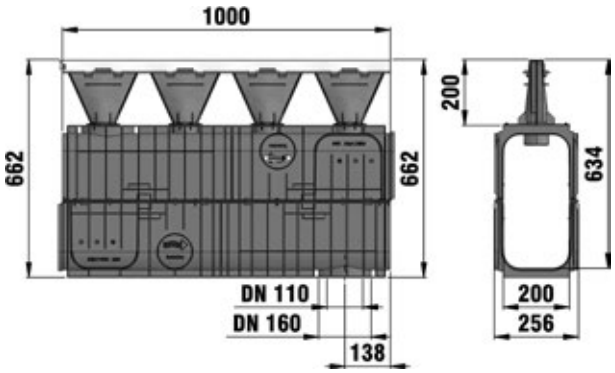
RECYFIX®HICAP®F 5000

RECYFIX®HICAP®F 5000 up to load class D 400

Type 5200, ductile iron slot 6 mm, 1,0 m



Type 5200, stainless steel design grating WAVE 6 mm, 1,0 m

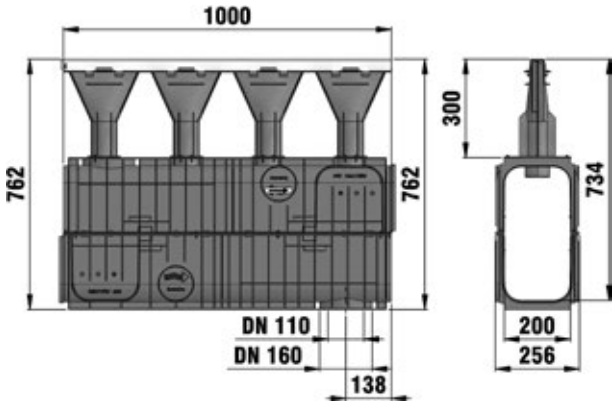


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 5200, ductile iron slot 6 mm, 1,0 m	1000	256	665	790	129	200	14,00	13410
Type 5200, stainless steel design grating WAVE 6 mm, 1,0 m	1000	256	662	790	44	200	11,83	13422
Inspection element complete with ductile iron grating SW 150/18 mm, KTL-coated, 1,0 m	1000	256	665	394	-	37,31	37,31	13807

RECYFIX®HICAP®F 5000

RECYFIX®HICAP®F 5000 up to load class E 600

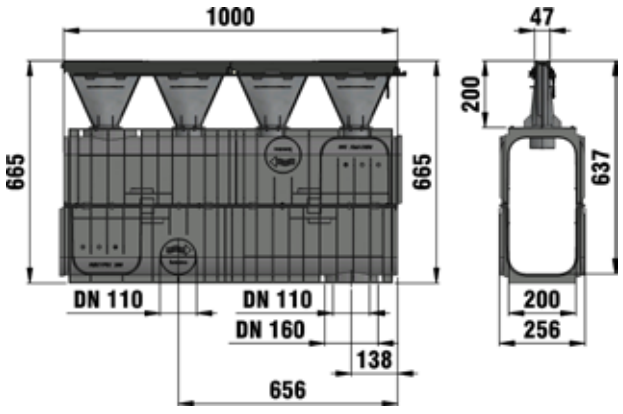
Type 5200, stainless steel slot 24 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 5200, stainless steel slot 24 mm, 1,0 m	1000	256	662	790	211	200	11,63	13424
Inspection element complete with ductile iron grating, closed, KTL-coated, 1,0 m	1000	256	665	394	-	37,31	37,31	13776

RECYFIX®HICAP®F 5000 up to load class F 900

Type 5200, ductile iron mesh 13/28 mm, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 5200, ductile iron mesh 13/28 mm, 1,0 m	1000	256	665	790	172	200	13,90	13420
Type 5200, ductile iron slot 28 mm, 1,0 m	1000	256	665	790	248	200	12,61	13430
Type 5200, ductile iron slot 14 mm, 1,0 m	1000	256	665	790	124	200	13,50	13425
Inspection element complete with ductile iron grating SW 150/20 mm, KTL-coated, 1,0 m	1000	256	665	394	710	36,56	36,56	13778

RECYFIX®HICAP®F 5000

RECYFIX®HICAP®F 5000, Accessories

End cap closed, galvanised, type 5000

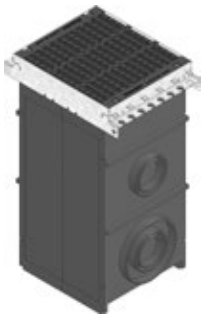
End cap with PVC-U pipe outlet DN/OD 200, galvanised, type 5000

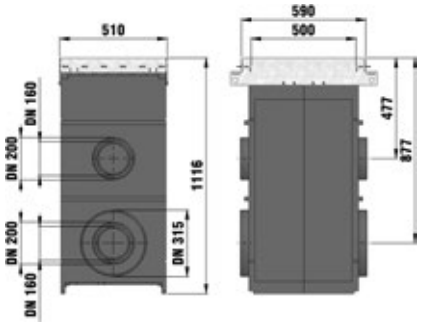
Step-fall connector from RECYFIX HICAP 5000 to RECYFIX HICAP 3000

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 5000	-	240	450	2,00	13412
End cap with PVC-U pipe outlet DN/OD 200, galvanised, type 5000	-	240	450	2,10	13415
Step-fall connector from RECYFIX HICAP 5000 to RECYFIX HICAP 3000	-	250	462	0,99	13217
Step-fall ramp, stainless steel, from RECYFIX HICAP 5000 to RECYFIX HICAP 3000	84	197	80	0,48	13295

RECYFIX®HICAP®F 5000

NEW RECYFIX®HICAP®F Trash boxes





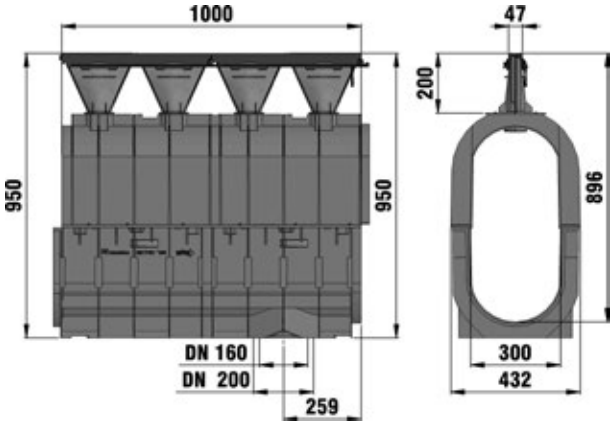
Trash box with ductile iron grating
SW 3 x 140/20 mm, class E 600,
up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500	32191
Trash box with ductile iron solid grating, class E 600, up to type 8000	510	590	1116	103,50	16505	32192
Trash box with ductile iron grating SW 3 x 140/20 mm, class F 900, up to type 8000	510	590	1116	101,84	32695	32696
Trash box connector incl. assembling, RECYFIX HICAP 5000	-	-	-	3,80	886	-
Shaft for channel connection up to type 10000	1120	1120	880	54,00	32000	-
Compensating ring, class D 400	608	608	110	16,18	32885	-
Compensating ring, class F 900	608	608	210	20,98	32001	-
Shaft cover, class D 400	850	850	100	105,00	32886	-
Shaft cover, class F 900	850	850	-	-	32167	-
Adapter plate for shaft, type 5000	-	590	470	6,15	32910	-

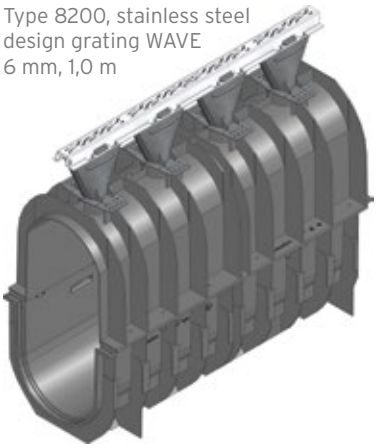
RECYFIX®HICAP®F 8000

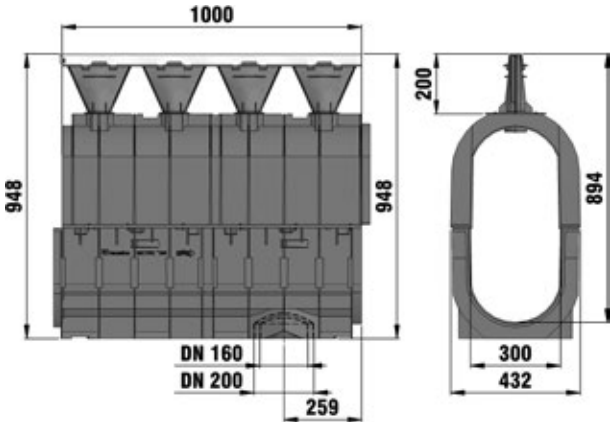
RECYFIX®HICAP®F 8000 up to load class D 400

Type 8200, ductile iron slot 6 mm, 1,0 m



Type 8200, stainless steel design grating WAVE 6 mm, 1,0 m



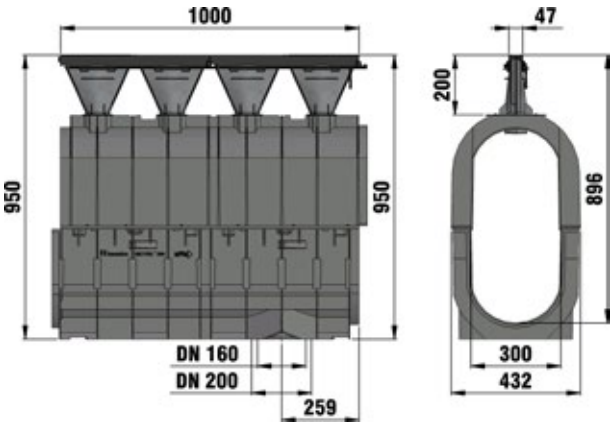


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 8200, ductile iron slot 6 mm, 1,0 m	1000	432	950	1714	129	200	24,00	13610
Type 8200, stainless steel design grating WAVE 6 mm, 1,0 m	1000	432	948	1714	44	200	20,60	13622
Inspection element complete with ductile iron grating SW 150/18 mm, KTL-coated, 1,0 m	1000	420	-	-	-	48,78	48,78	13808

RECYFIX®HICAP®F 8000

RECYFIX®HICAP®F 8000 up to load class E 600

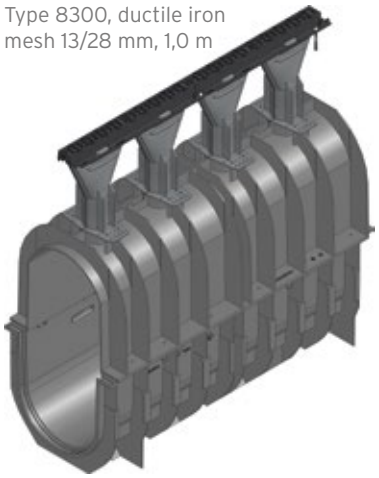
Type 8200, ductile iron mesh 13/28 mm, 1,0 m

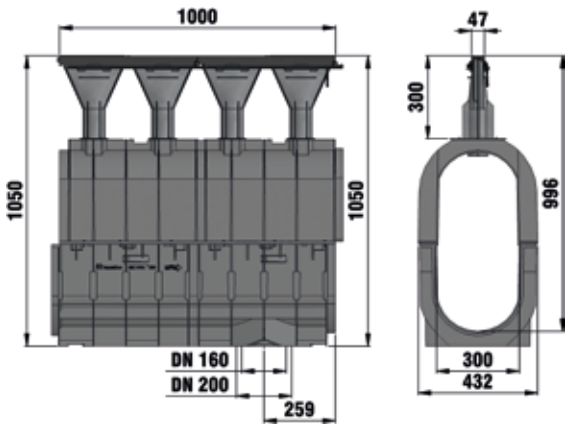


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 8200, ductile iron mesh 13/28 mm, 1,0 m	1000	432	950	1714	172	200	23,90	13620
Type 8200, ductile iron slot 28 mm, 1,0 m	1000	432	950	1714	248	200	21,64	13630
Type 8200, ductile iron slot 14 mm, 1,0 m	1000	432	950	1714	124	200	23,50	13625
Type 8200, stainless steel slot 24 mm, 1,0 m	1000	432	948	1714	211	200	20,40	13624
Inspection element complete with ductile iron grating, closed, KTL-coated, 1,0 m	-	-	-	-	-	-	1000	13781

RECYFIX®HICAP®F 8000 up to load class F 900

Type 8300, ductile iron mesh 13/28 mm, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 8300, ductile iron mesh 13/28 mm, 1,0 m	1000	432	1050	1714	172	300	24,10	13670
Type 8300, ductile iron slot 28 mm, 1,0 m	1000	432	1050	1714	248	300	22,24	13680
Type 8300, ductile iron slot 14 mm, 1,0 m	1000	432	1050	1714	124	300	23,77	13675
Inspection element complete with ductile iron grating SW 150/20 mm, KTL-coated, 1,0 m	1000	420	-	-	710	55,98	55,98	13784

RECYFIX®HICAP®F 8000

RECYFIX®HICAP®F 8000, Accessories

End cap closed, galvanised, type 8000

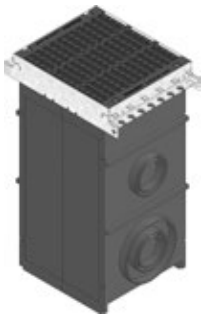
End cap with PVC-U pipe outlet DN/OD 200, galvanised, type 8000

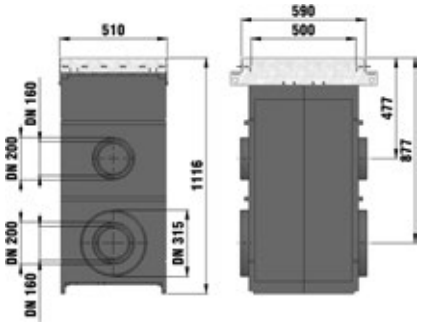
Step-fall connector from RECYFIX HICAP 8000 to RECYFIX HICAP 5000

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 8000	-	420	720	3,00	13612
End cap with PVC-U pipe outlet DN/OD 200, galvanised, type 8000	-	420	734	5,60	13615
Step-fall connector from RECYFIX HICAP 8000 to RECYFIX HICAP 5000	-	432	693	2,00	13417
Step-fall ramp, stainless steel, from RECYFIX HICAP 8000 to RECYFIX HICAP 5000	258	291	254	1,95	13695

RECYFIX®HICAP®F 8000

NEW RECYFIX®HICAP®F Trash boxes





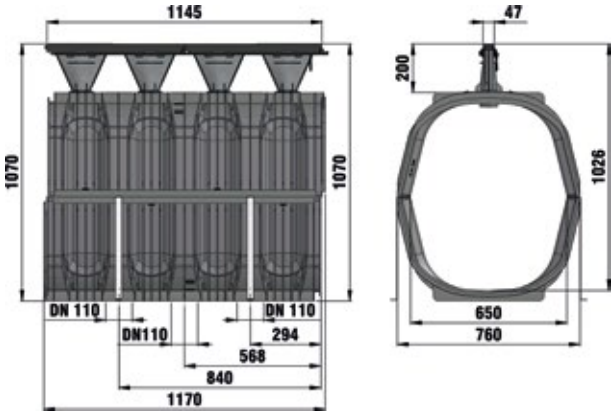
Trash box with ductile iron grating
SW 3 x 140/20 mm, class E 600,
up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500	32191
Trash box with ductile iron solid grating, class E 600, up to type 8000	510	590	1116	103,50	16505	32192
Trash box with ductile iron grating SW 3 x 140/20 mm, class F 900, up to type 8000	510	590	1116	101,84	32695	32696
Trash box connector incl. assembling, RECYFIX HICAP 8000	-	-	-	4,70	888	-
Shaft for channel connection up to type 10000	1120	1120	880	54,00	32000	-
Compensating ring, class D 400	608	608	110	16,18	32885	-
Compensating ring, class F 900	608	608	210	20,98	32001	-
Shaft cover, class D 400	850	850	100	105,00	32886	-
Shaft cover, class F 900	850	850	-	-	32167	-
Adapter plate for shaft, type 8000	-	590	756	6,78	32911	-

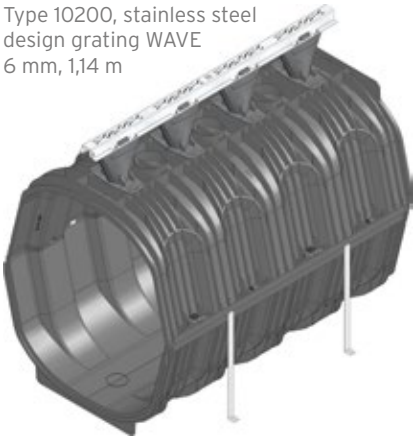
RECYFIX®HICAP®F 10000

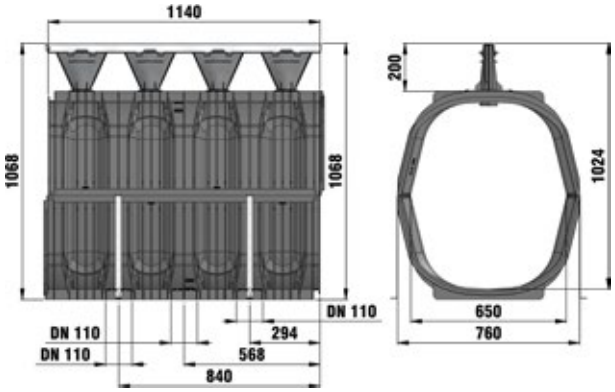
RECYFIX®HICAP®F 10000 up to load class D 400

Type 10200, ductile iron slot 6 mm, 1,14 m



Type 10200, stainless steel design grating WAVE 6 mm, 1,14 m



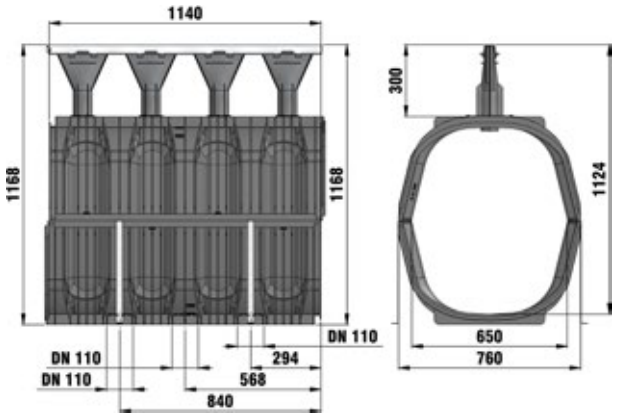


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 10200, ductile iron slot 6 mm, 1,14 m	1145	760	1070	4430	129	200	31,88	13810
Type 10200, stainless steel design grating WAVE 6 mm, 1,14 m	1140	760	1068	4430	44	200	17,24	13822
Inspection element complete with ductile iron grating SW 3 x 140/18 mm, KTL-coated, 1,0 m	1145	760	1070	-	-	88,63	88,63	13809

RECYFIX®HICAP®F 10000

RECYFIX®HICAP®F 10000 up to load class E 600

Type 10300, stainless steel slot 24 mm, 1,14 m

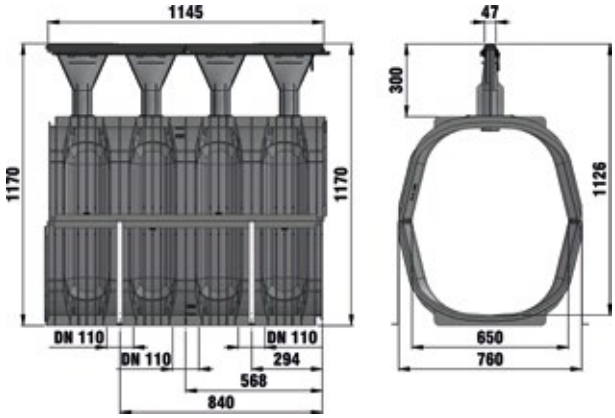


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 10300, stainless steel slot 24 mm, 1,14 m	1140	760	1168	4430	211	300	17,08	13874
Inspection element complete with ductile iron grating, closed, KTL-coated, 1,14 m	1145	760	1170	-	-	91,14	91,14	13786

RECYFIX®HICAP®F 10000

RECYFIX®HICAP®F 10000 up to load class F 900

Type 10300, ductile iron slot 14 mm



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Funnel H mm	Weight kg	Item No.
Type 10300, ductile iron mesh 13/28 mm, 1,14 m	1145	760	1170	4430	168	300	31,20	13870
Type 10300, ductile iron slot 28 mm	1145	760	1170	4430	247	300	31,18	13880
Type 10300, ductile iron slot 14 mm	1145	760	1170	4430	123	300	32,17	13885
Inspection element complete with ductile iron grating SW 3 x 140/20 mm, KTL-coated, 1,14 m	-	-	-	-	-	-	1145	13788

RECYFIX®HICAP®F 10000

RECYFIX®HICAP®F 10000, Accessories

Step-fall connector
from RECYFIX HICAP 10000
to RECYFIX HICAP 8000

Step-fall ramp, stainless steel,
from RECYFIX HICAP 10000
to RECYFIX HICAP 8000

	Length mm	Width mm	Height mm	Weight kg	Item No.
end cap, black, incl. assembly set	-	803	822	4,42	96002
Step-fall connector from RECYFIX HICAP 10000 to RECYFIX HICAP 8000	-	760	845	5,00	13617
Step-fall ramp, stainless steel, from RECYFIX HICAP 10000 to RECYFIX HICAP 8000	280	686	255	4,32	13895

FASERFIX POINT KS

Durable point drainage for public and commercial areas.

hauraton

FASERFIX POINT KS

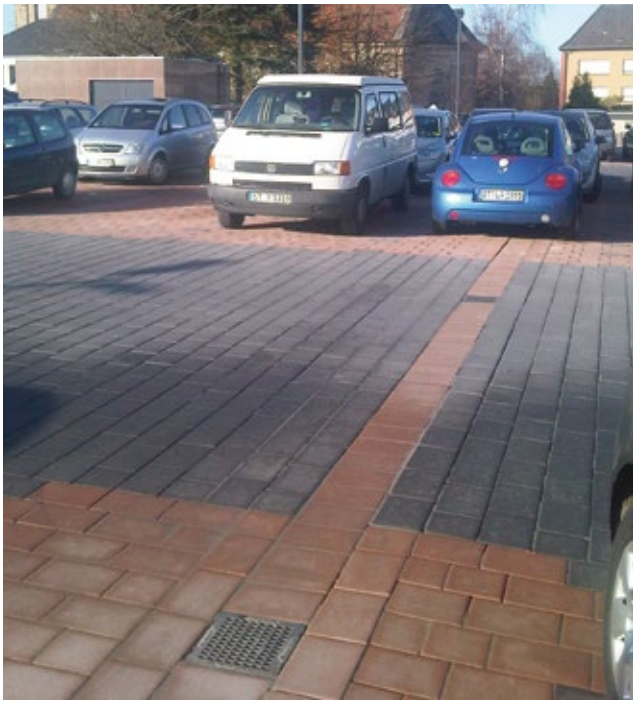
Durable point drainage for public and commercial areas.

1 Requirements

- draining away surface water at a specific point for reasons of building layout and topography.
- the system to be used must be able to permanently withstand the expected traffic.
- point drainage should be integrated harmoniously into the surrounding surface finish.

2 Application areas

- yards
- squares and parking areas in commercial and private areas



3 Solution

FASERFIX POINT KS trash boxes

- are made of fibre-reinforced concrete
- are tested according to DIN EN 124
- are protected by a galvanised steel angle housing all round.
- gratings are securely locked to the base box using the SIDE-LOCK boltless locking system
- are equipped with a sludge trap in galvanised steel or PP.

4 Additional applications

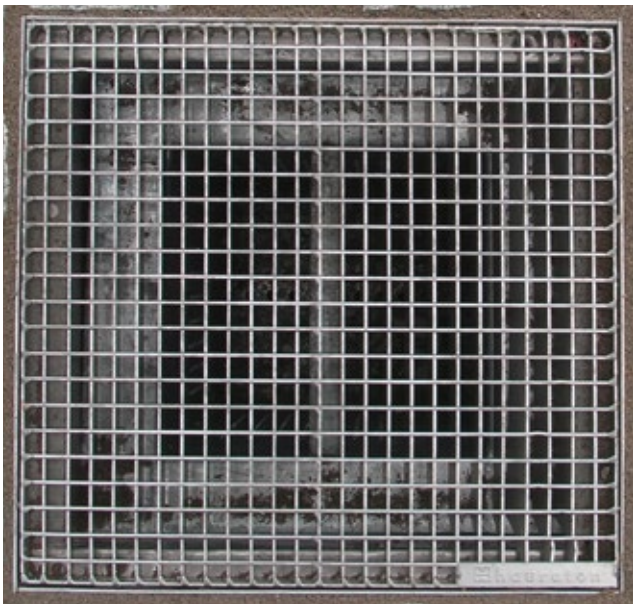
- point inlet: can be installed with different construction heights
- trash box: can also be used as trash boxes in linear drainage runs of various channel types
- sludge trap: where the trapping of solids is a requirement, it is also possible to install the FASERFIX POINT KS trash box as a sludge trap. In that case, the outlet openings in the lower part will be closed off and an additional outlet opening will be inserted in the middle of the upper part.
- pump sump: the FASERFIX SUPER gully and the FASERFIX POINT KS point inlet type 40/40 be suitable as pump sump

FASERFIX POINT KS
at Wiener Platz, Dresden

The Wiener Platz is the central traffic hub in Dresden. The different transport modes, such as railway, cars, buses, tramway, bicycles and wheelchairs are interlinked on different levels. For a visually appealing streetscape design of surfaces and facades, the FASERFIX POINT KS yard gullies and FASERFIX SUPER channels were fitted with customfabricated stainless steel gratings.

The special request from the client and architects:

- safety for pedestrians, cyclists and wheelchair users: narrow mesh size of the grating
- cost savings: no ingress of rough dirt items into the draining system
- harmonious overall design of channels and point inlets



YOUR BENEFITS WITH **FASERFIX** POINT KS

HIGH-GRADE MATERIAL

- „Made in Germany“
- optimal stability through fibre-reinforced concrete (polypropylene fibres) with low weight
- adheres well to the foundation concrete (same coefficient of thermal expansion)
- installation without grating possible
- fire resistance class A1 (non-combustible) according to DIN 4102

= QUALITY ASSURED / PERFORMANCE ASSURED

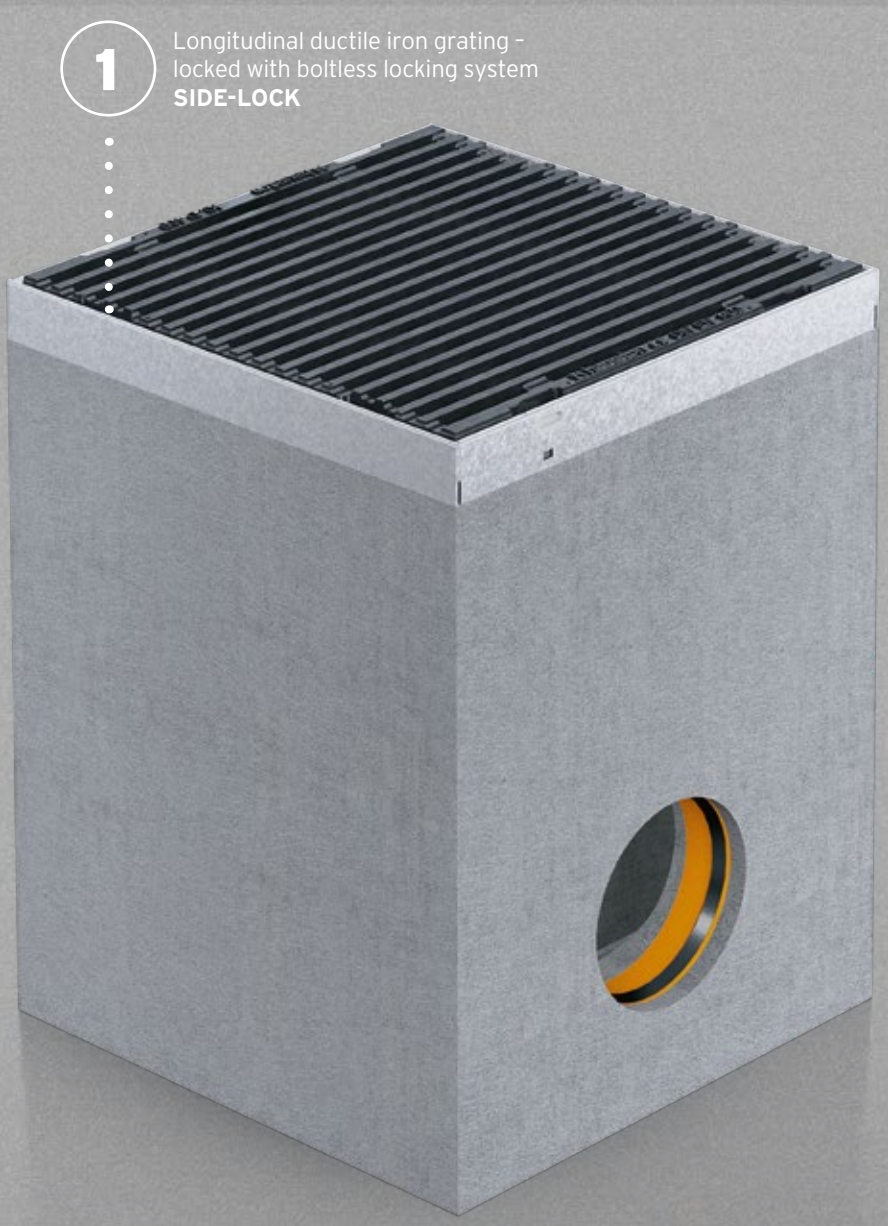
HEAVY-DUTY FRAME & SIDE-LOCK

- 20 mm x 20 mm Zarge frame and inlaying grating
- extremely durable connection between steel frame and concrete body
- 90 % time savings when fastened with boltless locking system **SIDE-LOCK** (compared to conventional fastening)
- insertion or replacement of the grating is possible without special tools, a screwdriver is sufficient

= QUALITY ASSURED / COST SAVINGS

IDEAL FOR ...

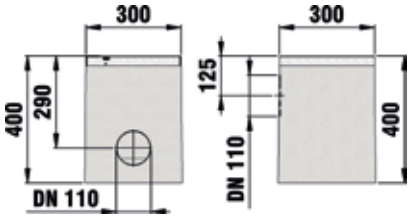
drainage of surface water at one point, such as in parking areas, yards and squares in commercial and private areas.



FASERFIX®POINT KS 30/30

FASERFIX®POINT KS 30/30, Point drainage, class D 400,
complete with PVC-U socket and sealing DN/OD 110, **foul air trap and PE mud bucket**

with longitudinal ductile iron grating
SW 8 mm, KTL-coated



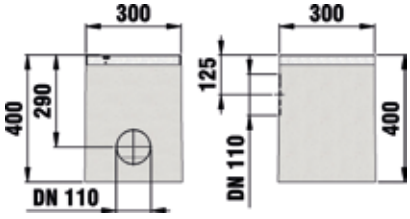
with longitudinal ductile iron grating
SW 8 mm, galvanised

	Length mm	Width mm	Height mm	Weight kg	Item No.
with longitudinal ductile iron grating SW 8 mm, KTL-coated	300	300	400	49,53	4402
with longitudinal ductile iron grating SW 8 mm, galvanised	300	300	400	49,63	4422

Point drainage tested according to EN 1433.
For FASERFIX POINT the same installation advices as for FASERFIX SUPER Channels are analogously valid.
The gratings are locked with boltless-locking system SIDE-LOCK.

FASERFIX®POINT KS 30/30, Point drainage, class E 600,
complete with PVC-U socket and sealing DN/OD 110, **foul air trap and PE mud bucket**

with GUGI-Ductile iron mesh grating
MW 15/25 mm, black



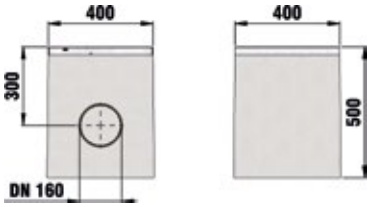
	Length mm	Width mm	Height mm	Weight kg	Item No.
with GUGI-Ductile iron mesh grating MW 15/25 mm, black	300	300	400	52,40	4400
with GUGI-Ductile iron mesh grating MW 15/25 mm, black, KTL-coated	300	300	400	52,03	4401
with GUGI-Ductile iron mesh grating MW 15/25 mm, galvanised	300	300	400	52,40	4420

Point drainage tested according to EN 1433.
For FASERFIX POINT the same installation advices as for FASERFIX SUPER Channels are analogously valid.
The gratings are locked with boltless-locking system SIDE-LOCK.

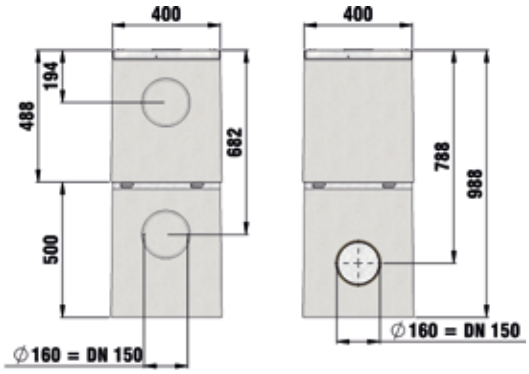
FASERFIX®POINT KS 40/40

FASERFIX®POINT KS 40/40, Point drainage, **class E 600**,
complete with PVC-U socket and sealing DN/OD 160, **foul air trap and PE mud bucket**

One piece with GUGI-Ductile iron mesh grating MW 15/25 mm, black



Two piece with GUGI-Ductile iron mesh grating MW 15/25 mm, black



	Length mm	Width mm	Height mm	Weight kg	Item No.
One piece with GUGI-Ductile iron mesh grating MW 15/25 mm, black	400	400	500	93,10	4700
Two piece with GUGI-Ductile iron mesh grating MW 15/25 mm, black	400	400	988	156,10	4800
One piece with GUGI-Ductile iron mesh grating MW 15/25 mm, galvanised	400	400	500	94,00	4720
Two piece with GUGI-Ductile iron mesh grating MW 15/25 mm, galvanised	400	400	988	155,00	4820
Extension part	400	400	500	63,48	4825

Point drainage tested according to EN 1433.
For FASERFIX POINT the same installation advices as for FASERFIX SUPER Channels are analogously valid.
The gratings are locked with boltless-locking system SIDE-LOCK.

FASERFIX TRAFFIC GUGIBLOC

Drainage system for extreme conditions with high capacity.

hauraton

Reconstruction Čemernianska street, Slovakia

YOUR BENEFITS WITH **FASERFIX** TRAFFIC GUGIBLOC

STRONG, STABLE, SAFE & SECURE

- load tested to F 900 (EN 1433)
- monolithic channel installation with retained grating design
- elevated grating structure in durable spheroidal ductile iron GJS 500-7
- grating flange for strong key to concrete encasement
- thick channel wall dimensions for superior resistance to lateral / dynamic forces and ultra-heavy-duty loads
- tapered channel body design for added stability when installed

= PERFORMANCE ASSURED / LONGEVITY

VARIETY OF OPTIONS AND ACCESSORIES

- channel size 150 mm wide
- GUGI-mesh grating design up to F 900 loading
- range of access / outlet boxes and accessories
- configured as constant-depth or stepped-fall

= DESIGN FLEXIBILITY

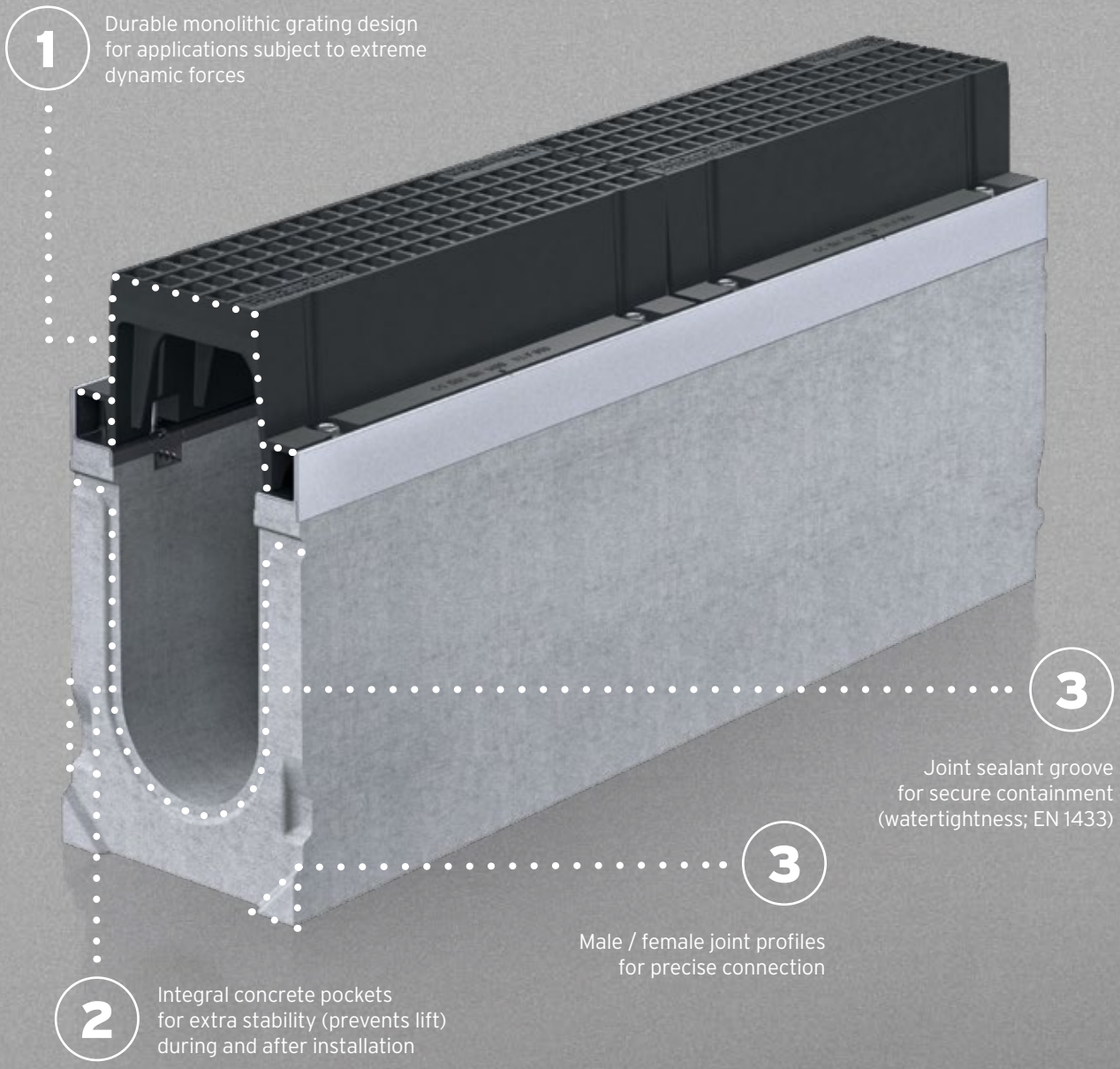
HIGH RESISTANCE

- fibre-reinforced concrete for increased impact and wear resistance
- material resistance to frost and salts
- meets concrete exposure classes (XF4, XA3, XS3) as classified within DIN EN 206-1
- class 1A (non-flammable) fire rating (DN 4102)
- high resistance to extreme climate temperatures and UV light

= PERFORMANCE ASSURED / LONGEVITY

IDEAL FOR ...

F 900 load environments subject to ultra heavy duty traffic imposing extreme dynamic forces.

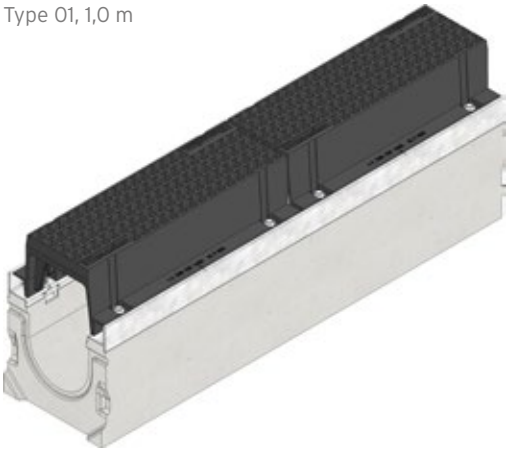


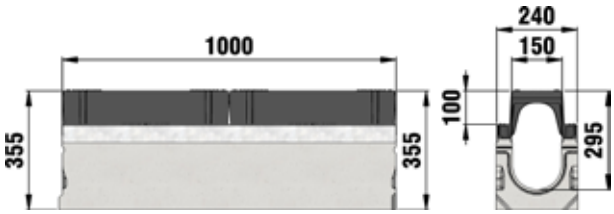
FASERFIX®TRAFFIC GUGIBLOC 150

Combi article

FASERFIX®TRAFFIC GUGIBLOC 150, class F 900

Type 01, 1,0 m

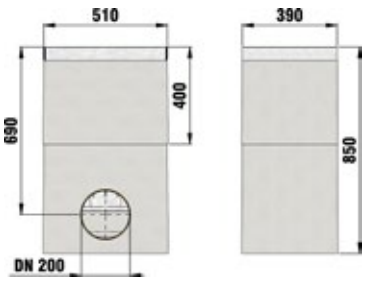




	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01, 1,0 m	1000	240	355	328	546	108,00	2800
Type 0105, 0,5 m	500	240	355	328	546	56,50	2849
Type 010, 1,0 m	1000	240	409	408	546	123,00	2842
Type 020, 1,0 m	1000	240	469	488	546	131,00	2844

Accessories

Trash boxes



Trash box
with galvanised bucket

GUGIBLOC Access cover
with ductile iron grating,
MW 15/25 mm, class E 600

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	500	240	640	90,32	2052
GUGIBLOC Access cover with ductile iron grating, MW 15/25 mm, class E 600	500	212	140	13,50	2875
Trash box, 2-parts, with ductile iron mesh grating, MW 15/25 mm, class E 600	510	390	850	204,00	4852
Trash box with GUGI-Ductile iron mesh grating, MW 15/25 mm	500	240	640	109,30	2852

FASERFIX®TRAFFIC GUGIBLOC 150

Accessories

End caps

End cap closed, type 01

End cap closed, type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 01	-	240	355	0,90	2881
End cap closed, type 010	-	240	409	1,10	2882
End cap closed, type 020	-	240	469	1,30	2883

Further accessories

Foul air trap DN/OD 160

PVC-U pipe connection element DN/OD 160

PVC-Connection DN/OD 200

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap DN/OD 160	584	160	439	2,00	960
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

Factory-made services

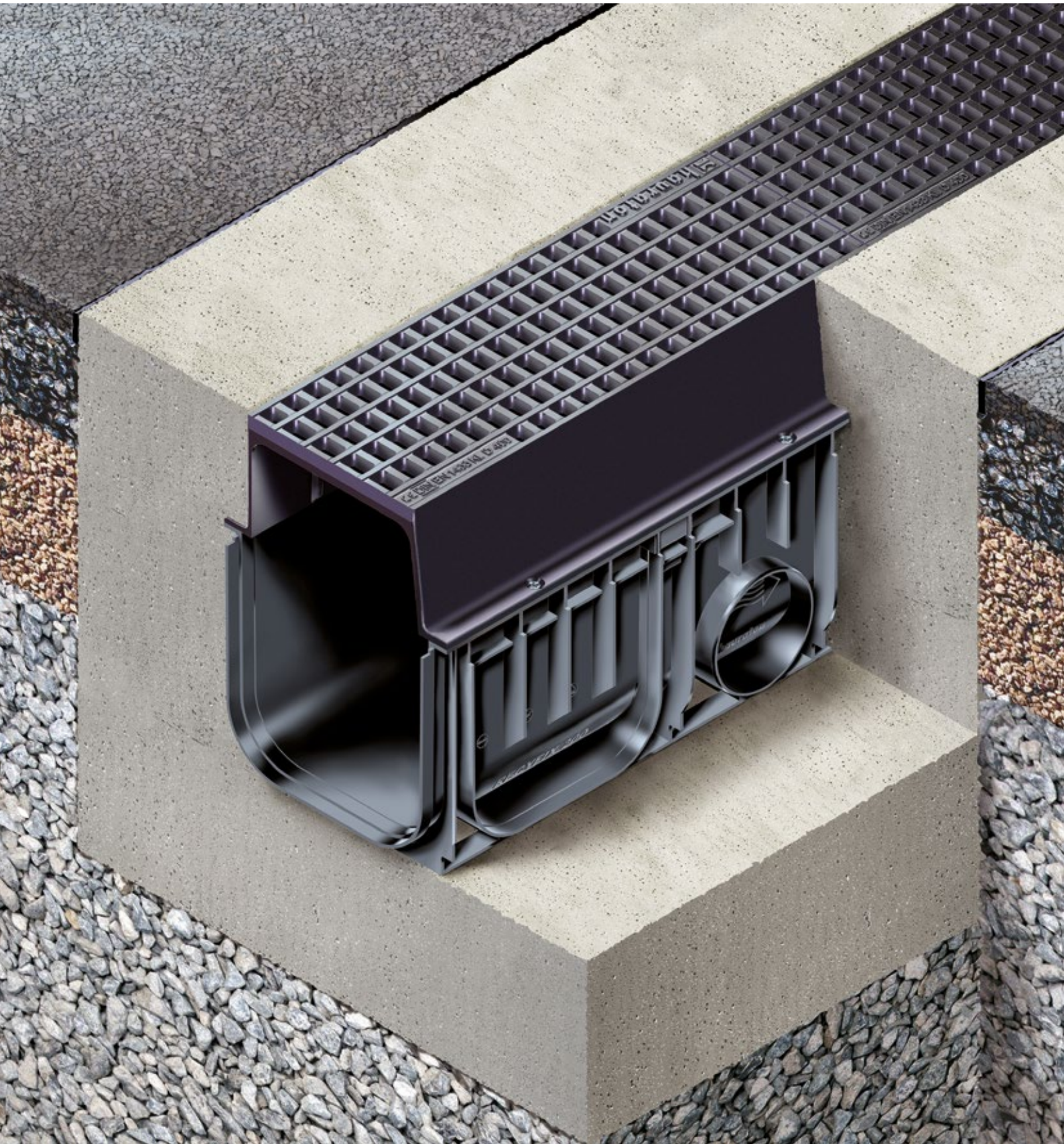
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)

Cutting to length of NW 150

	Length mm	Width mm	Height mm	Weight kg	Item No.
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704
Cutting to length of NW 150	-	-	-	-	991

RECYFIX TRAFFIC GUGIBLOC

Light and robust drainage for high traffic.



hauraton

Driveway Concrete Plant, Czech Republic

RECYFIX TRAFFIC GUGIBLOC

Light and robust drainage for high traffic.

1 Requirements

Drainage channels in busy traffic areas must

- be able to withstand especially high surface and point loads.
- be particularly stable and long-lasting.
- resist high braking and shear stresses.
- be wear resistant and durable.
- be maintenance free and drain reliably.

2 Application areas

- Heavy traffic zones in public and commercial areas
- Logistics centres
- Container terminals
- Accesses with particularly heavy traffic

3 Solutions

Therefore RECYFIX TRAFFIC GUGIBLOC channels are very suitable for the drainage of busy traffic areas:

- surfaces that are run over directly made of high quality ductile graphite iron EN-GJS-500-7
- channels made of specially resistant RECYFIX plastic
- very stable fixing in the surface coating
- works in the installation as a monolithic channel
- especially high drainage capacity, even with large volumes of water

Container terminals: resistant to the highest point loads.

Industrial areas: maximum safety, particularly suitable for high point loads.

Commercial areas: heavy traffic areas.

Ports: particularly suitable for transshipment sites.

Filling stations: resistant to chemicals and impermeable to liquids.

Logistics centres: Areas subject to the highest loads.

YOUR BENEFITS WITH **RECYFIX** TRAFFIC GUGIBLOC

STRONG, STABLE, SAFE & SECURE

- load tested to E 600 according to EN 1433
- monolithic channel installation with retained grating design
- elevated grating structure with flange for strong key to concrete encasement
- structural ribbing for superior resistance to dynamic forces and heavy duty loads

= PERFORMANCE ASSURED / LONGEVITY

HIGH RESISTANCE

- high resistance against frost and salts
- 0 % water absorbation (non polar)
- high level corrision resistance to a range of chemicals
- UV stable (composite channel body with > 2 % carbon black added)
- suitable for climate temperatures from - 30 °C to + 80 °C and beyond

= PERFORMANCE ASSURED / LONGEVITY

VARIETY OF OPTIONS AND ACCESSORIES

- channel sizes 200 and 300 mm wide
- GUGI-mesh grating design up to E 600 loading
- range of access / outlet boxes and accessories
- configured as constant-depth or stepped-fall
- pre-formed pipe-connections for added flexibility

= DESIGN FLEXIBILITY

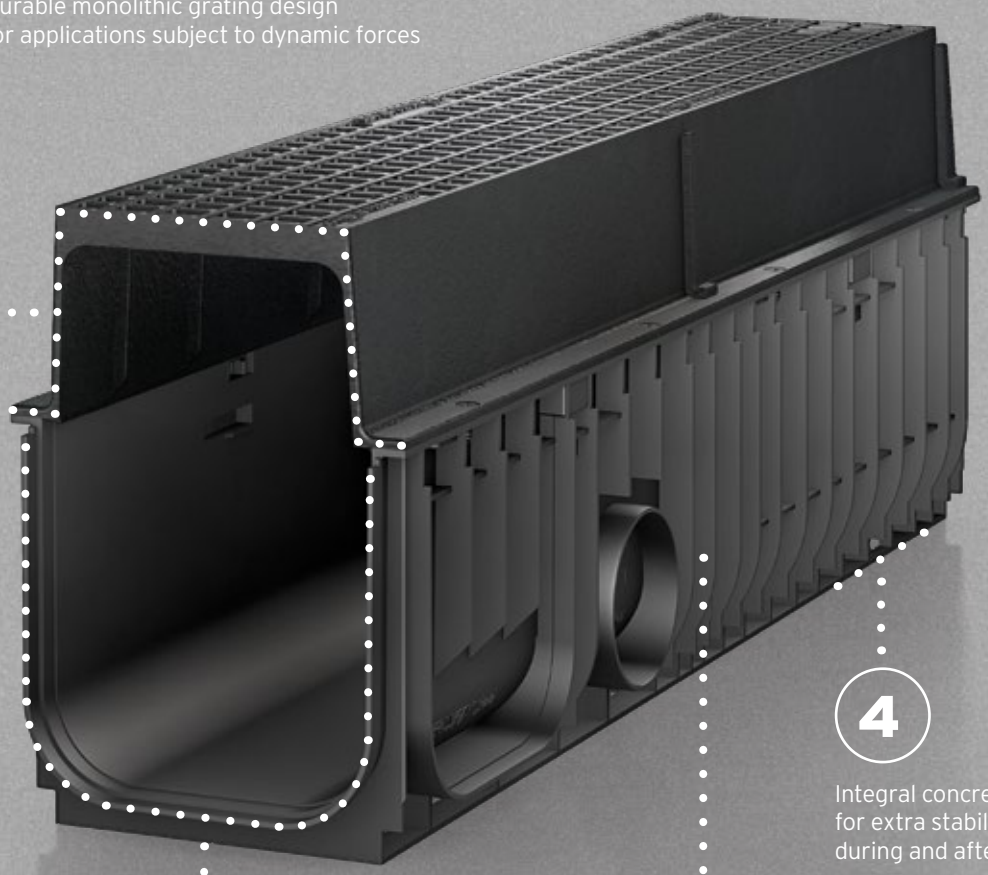
HIGH-GRADE MATERIALS

- **RECYFIX** - modified PP composite for strength, durability, flexibilty and impact resistance.
- grating in durable spheroidal ductile iron GJS 500-7
- channel body from 100 % recycled material; 100 % recyclable (environmentally friendly)
- smooth inner surface for superior flow characteristics
- PP channel body can be cut, drilled and ´worked´ easily on site

= QUALITIY ASSURANCE / PERFORMANCE ASSURED

IDEAL FOR ...

E 600 load environments subject to heavy-duty traffic e. g. service yards, industrial areas, parking areas.



1 Durable monolithic grating design for applications subject to dynamic forces

2 Tongue and groove joint design for watertightness according to EN 1433

3 Ribs for additional strength and structural integrity

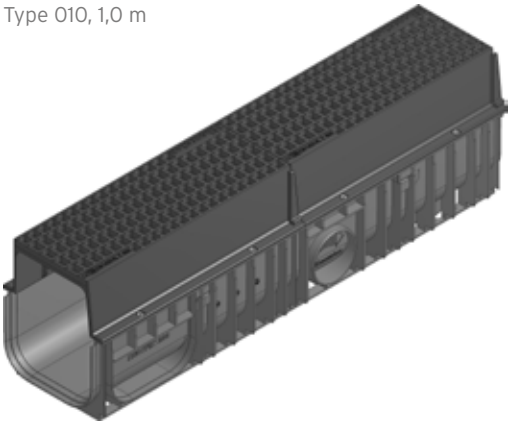
4 Integral concrete keys for extra stability (reduces lift) during and after installation

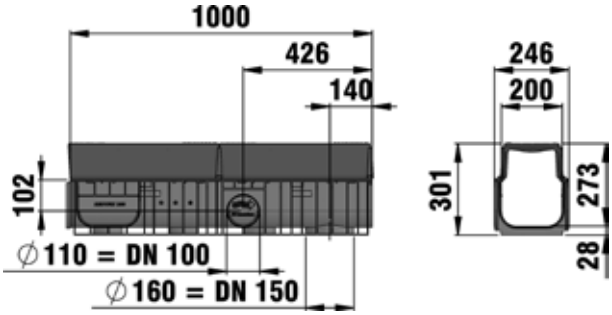
RECYFIX®TRAFFIC GUGIBLOC 200

Combi article

RECYFIX®TRAFFIC GUGIBLOC 200, class E 600

Type 010, 1,0 m

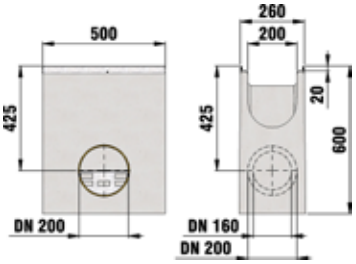




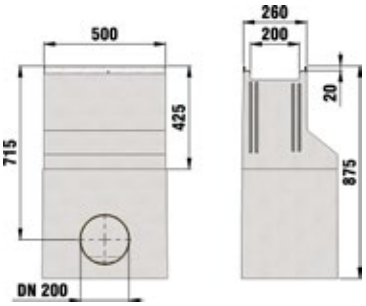
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010, 1,0 m	1000	246	-	451	786	27,90	42842
Type 020, 1,0 m	1000	244	-	551	786	28,01	42844

Accessories

Trash boxes



Trash box
with galvanised bucket



Trash box, 2-pieces,
with galvanised mud bucket

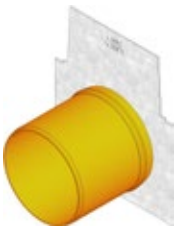
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket	500	260	600	72,17	12052
Trash box, 2-pieces, with galvanised mud bucket	500	260	875	177,00	12054
GUGI-Ductile mesh grating MW 15/25 mm, black, 0,5 m	500	249	20	867	12068

RECYFIX®TRAFFIC GUGIBLOC 200

Accessories

End caps

End cap closed, type 010



End cap with outlet DN/OD 160, galvanised, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 010	-	243	288	1,00	42882
End cap closed, type 020	-	243	338	1,20	42883
End cap with outlet DN/OD 160, galvanised, type 010	-	243	288	1,20	42892
End cap with outlet DN/OD 160, galvanised, type 020	-	243	338	1,40	42893

Further accessories

Foul air trap DN/OD 160

PVC-U pipe connection element DN/OD 160

PVC-Connection DN/OD 200

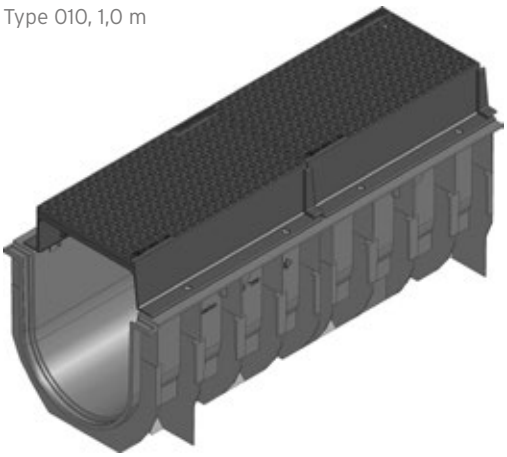
	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap DN/OD 160	584	160	439	2,00	960
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906
PVC-Connection DN/OD 200	-	-	-	0,80	907
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

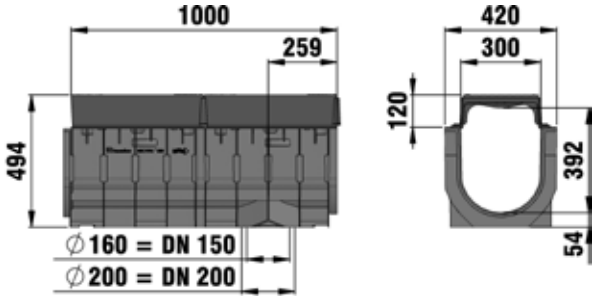
RECYFIX®TRAFFIC GUGIBLOC 300

Combi article

RECYFIX®TRAFFIC GUGIBLOC 300, class E 600

Type 010, 1,0 m

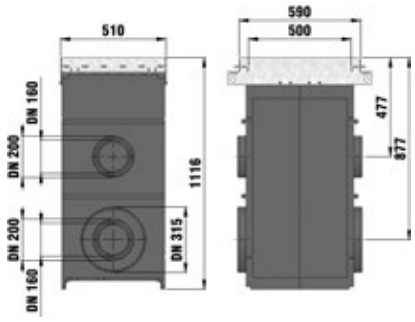




	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010, 1,0 m	1000	420	-	1055	1046	53,06	40942

Accessories

Trash boxes



Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with ductile iron grating SW 3 x 140/20 mm, class E 600, up to type 8000	510	590	1116	101,00	16500

RECYFIX®TRAFFIC GUGIBLOC 300

Accessories

End caps

End cap closed,
galvanised, type 010

Connection plate,
galvanised, Trash box
RECYFIX TRAFFIC GUGIBLOC 300

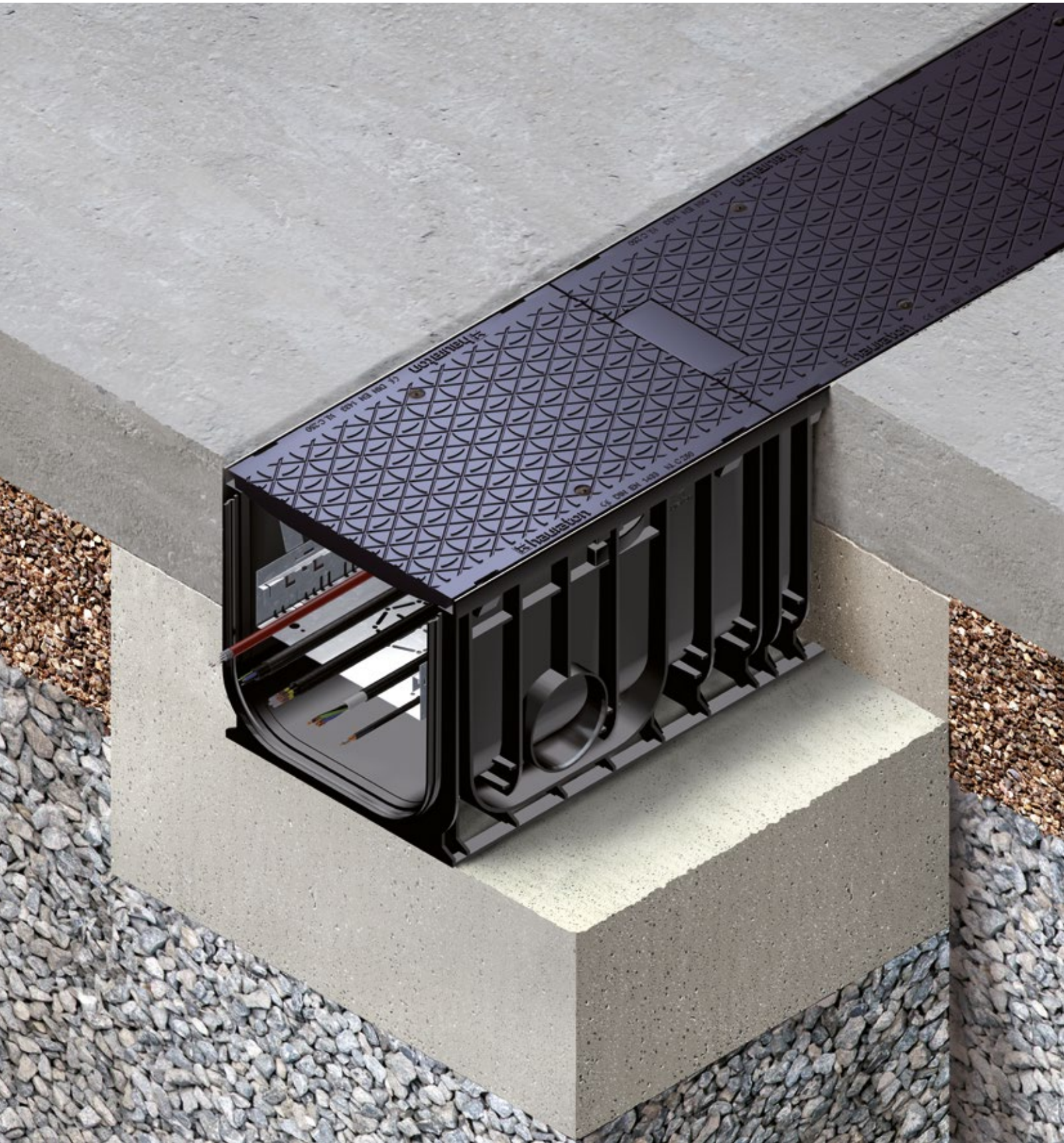
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 010	-	373	494	2,74	40982
End cap with horizontal PVC-U pipe outlet DN/OD 200, type 010	-	373	489	3,45	40992
Connection plate, galvanised, Trash box RECYFIX TRAFFIC GUGIBLOC 300	-	453	372	2,63	40984

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

SERVICE CHANNEL

Accessible, floor-mounted system for temporary or permanent organisation and management of supply and information cables.



hauraton

SERVICE CHANNEL

Accessible, floor-mounted system for temporary or permanent organisation and management of supply and information cables.

1 Requirements

Ground installed SERVICE CHANNELS have to:

- ensure a temporary or permanent operation
- withstand daily changing requirements under extreme loads
- offer a quick, easy and flexible installation
- allow quick access everywhere
- make the cable routing invisible

2 Application areas

- exhibition halls
- production workshops
- stadiums

3 Solutions

The SERVICE CHANNEL System is a tried-and-tested solution for a variety of applications. It offers:

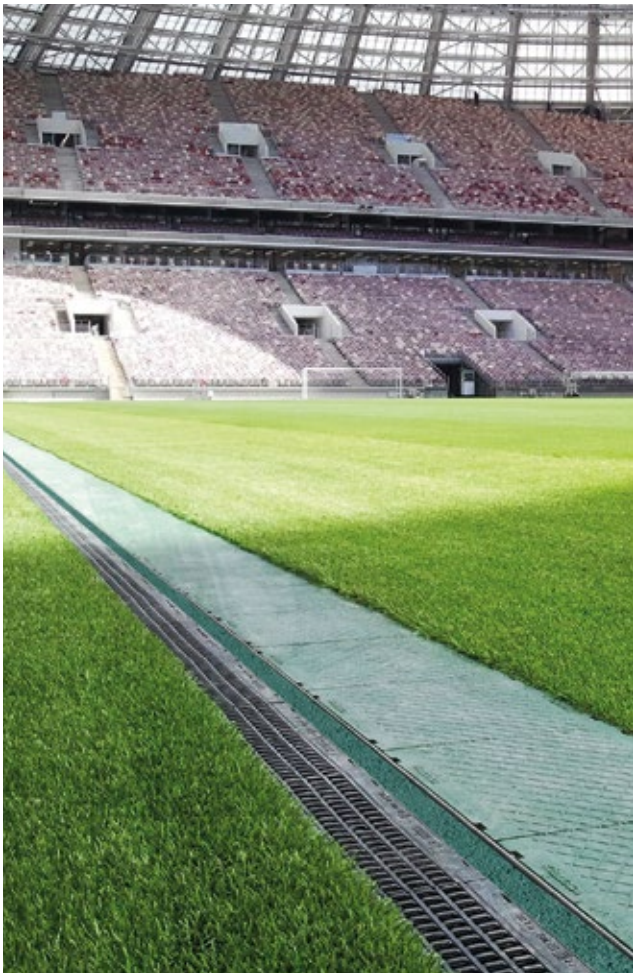
- channel systems made of high-quality materials such as fibre reinforced concrete or 100% recycled composite for maximum stability and security
- a simple installation with various connection possibilities like T- and corner-connections for cost savings and flexibility
- inside cable routing for an attractive overall appearence with a large internal cross-section and optionally available cable-routing system

Henryk-Reyman-Stadium in Krakow, Poland

Warsaw Spire Office Building in Warsaw, Poland

Volvo prototype factory in Wrocław, Poland

Production Workshop RULMECA in Aschersleben, Germany



Luschniki-Stadium in Moscow, Russia

YOUR BENEFITS WITH
SERVICE CHANNEL FASERFIX KS

HIGH-PERFORMANCE ANGLE HOUSING & BOLTLESS LOCKING SYSTEM SIDE-LOCK

- 20 mm x 20 mm angle housing and inlaying covers
- extremely stable connection between angle housing and concrete
- 8 fixing points for the cover
- additional protection against horizontal movement
- 90% time savings when fixing the cover
- Insertion of the cover without special tools, one screwdriver is sufficient

= QUALITY ASSURED / COST SAVINGS

HIGH STABILITY

- maximum lateral stability
- extra thick wall thickness compared to many competitor products, for additional safety in extreme situations
- installationforasphaltedsurfaces up to class E 600, without concrete stretcher

= PERFORMANCE ASSURED / DURABILITY

HIGH-GRADE MATERIAL

- "Made in Germany"
- maximum stability due to fibre-reinforced concrete (polypropylene fibres) with low weight
- strong adhesion on foundation concrete (same coefficient)
- installation without cover possible
- fire resistance class A1 (non-flammable) according to DIN 4102

= QUALITY ASSURED / DURABILITY

UNIQUE DUCTILE IRON GRATINGS WITH NUMEROUS COMBINATION OPTIONS

- high-qualityKTL-coating
- anti-slip feature
- extremely durable
- easy opening and closing of the cover due to boltless locking system **SIDE-LOCK**
- various covers: closed, with opening for cable outlet

= DESIGN FLEXIBILITY / PERFORMANCE ASSURED

OPTIONAL BLIND COVER FOR DUCTILE IRON GRATING WITH CABLE OPENING

- KTL-coated
- easy opening and closing of the cable inlet and outlet

= DESIGN FLEXIBILITY

LARGE, CLEAR CROSS-SECTION

- storage space for cables and wires
- optional on two levels (see cable routing system accessories)

= DESIGN FLEXIBILITY

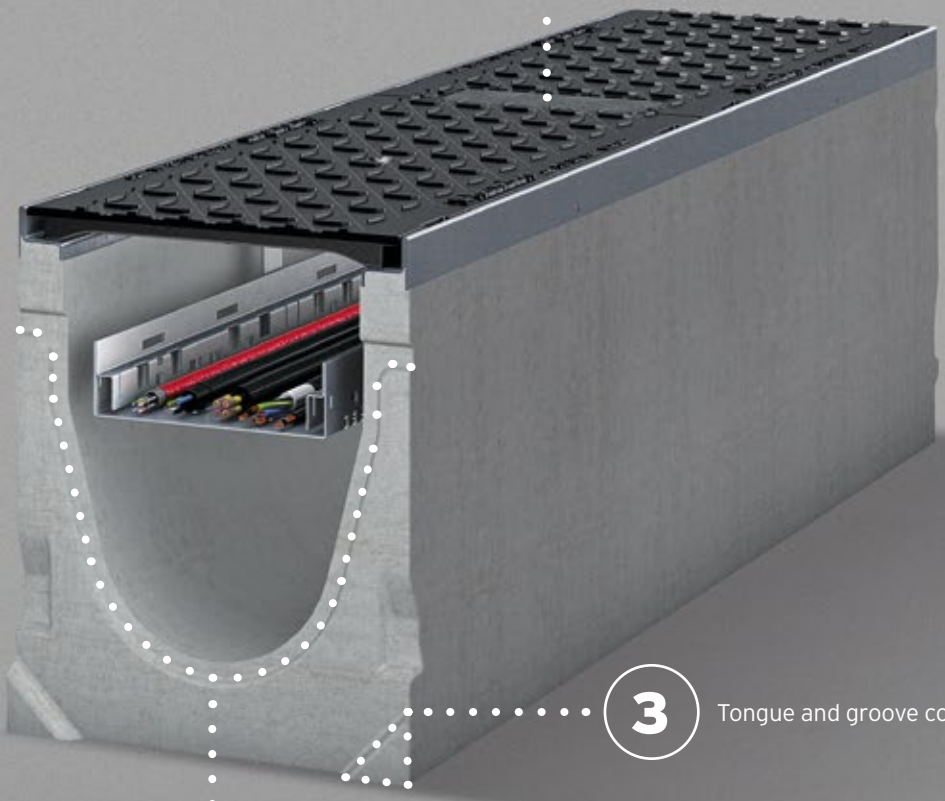
OPTIONAL CABLE-ROUTING SYSTEM

- for guiding cables and wires in an elevated position (see cable routing system accessories)
- easier laying and accessibility of cables and lines

= DESIGN FLEXIBILITY

IDEAL FOR ...

applications for laying cables and lines in the ground which can be easily accessed at all times and the surfaces of which are driven on with heavy wheel loads.



1 Blank cover

2 Safety joint according to DIN EN 1433

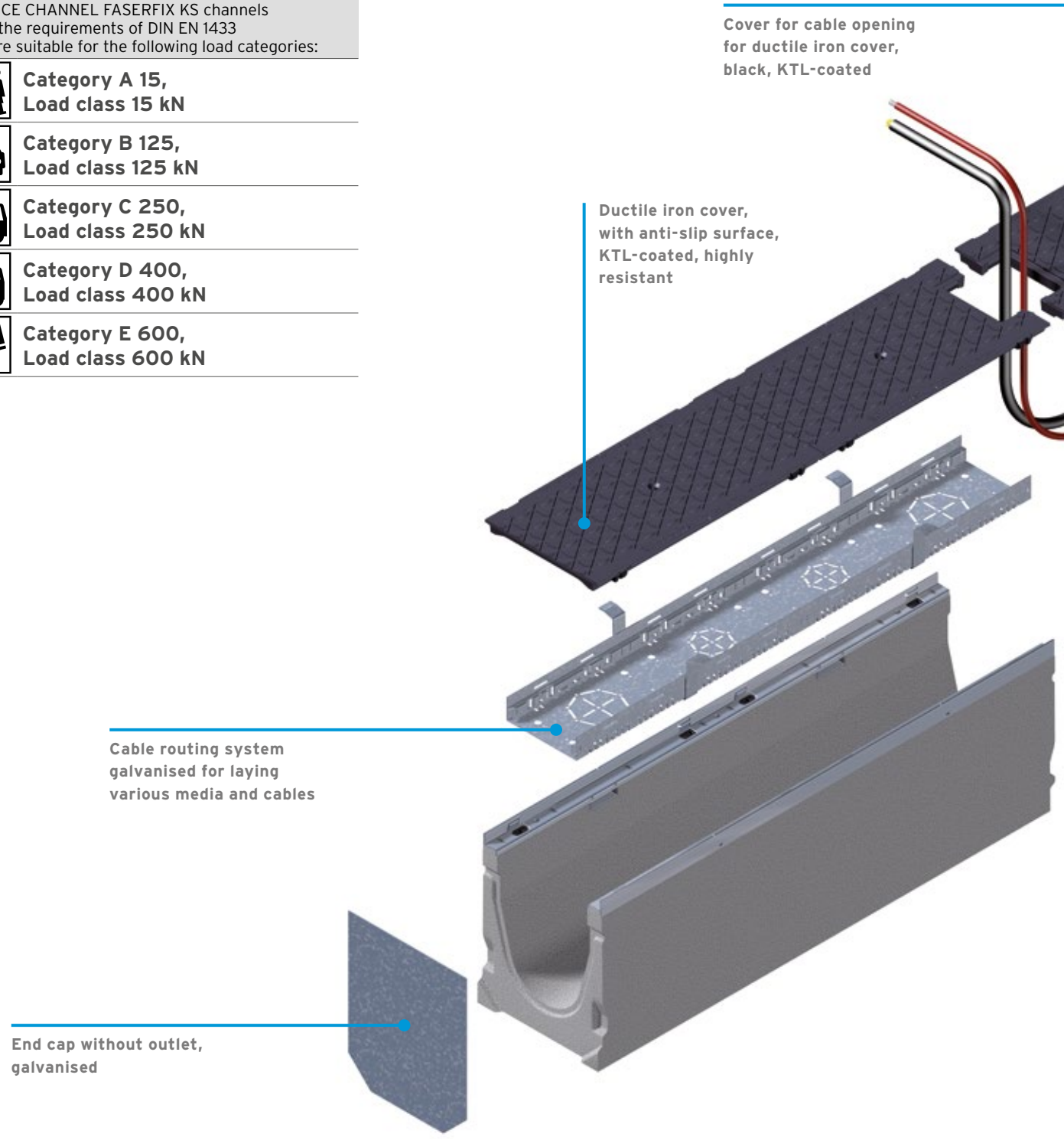
3 Tongue and groove connection

SERVICE CHANNEL FASERFIX KS

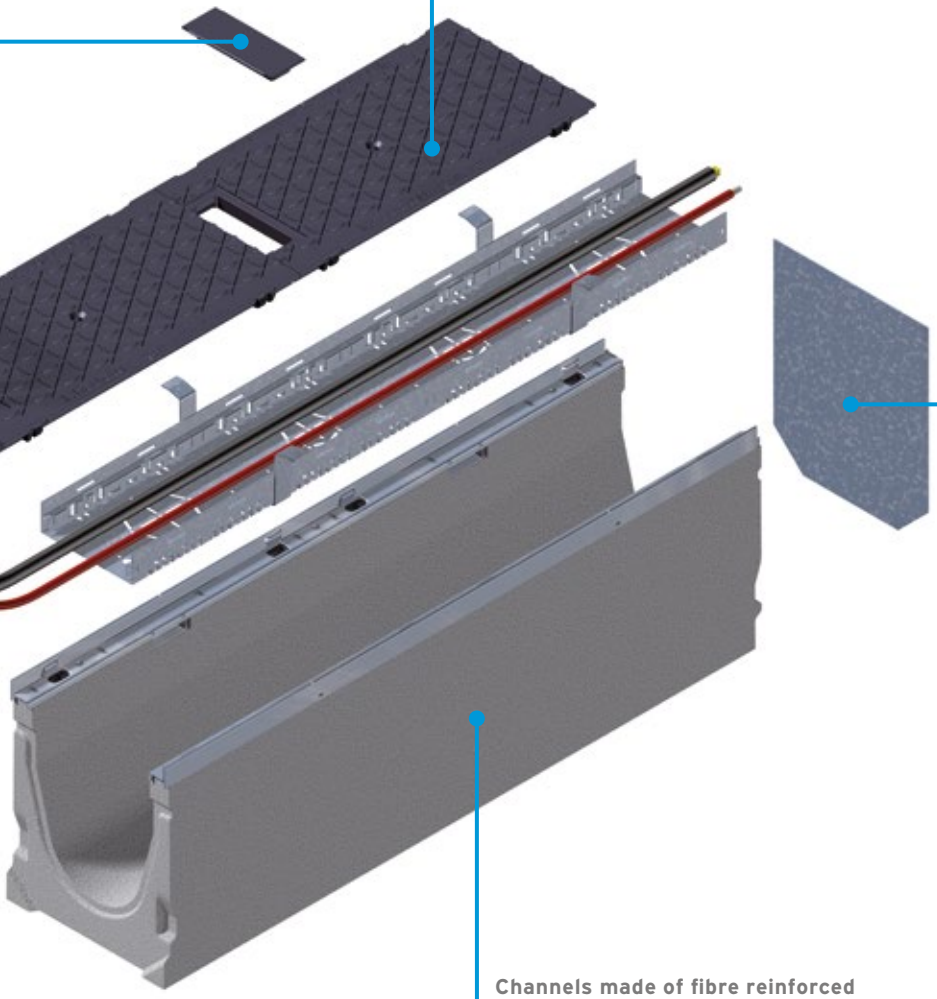
Accessible, floor-mounted system for temporary or permanent organisation and management of supply and information cables.

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

- **Category A 15, Load class 15 kN**
- **Category B 125, Load class 125 kN**
- **Category C 250, Load class 250 kN**
- **Category D 400, Load class 400 kN**
- **Category E 600, Load class 600 kN**



Ductile iron cover with opening for cables, anti-slip surface, KTL-coated, highly resistant, can be combined with the ductile iron cover



End cap without outlet, galvanised

Channels made of fibre reinforced concrete, according DIN V 19580 / EN 1433, CE-conform with safety joint, steel angle housings and boltless locking system SIDE-LOCK with groove and tongue connection for exact installation

YOUR BENEFITS WITH **SERVICE CHANNEL RECYFIX** PRO

ANGLE HOUSINGS

- recycled composite angle housing (PP) according to DIN 19580
- recesses for longitudinal thrust protection
- inlaying gratings

= QUALITY ASSURED

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- considerably lighter than channels made of polymer/resin concrete
- easytransportandinstallation

= COST SAVINGS

HIGH-GRADE MATERIALS

- **RECYFIX** - robust and breakproof
- elastic and particularly resistant material
- withstands high traffic loads and temperature differences in daily use
- 100 % recycled channel body (and 100 % recyclable)
- 100 % environmentally friendly
- non-conductive
- the channel body made of PP can be cut, drilled and machined on site without any problems

= PERFORMANCE ASSURED

UNIQUE DUCTILE IRON GRATINGS WITH VARIOUS COMBINATION OPTIONS

- high-quality KTL-coating
- anti-slipfeature
- extremelydurable
- various covers: closed, with opening for cable outlet

= DESIGN FLEXIBILITY / PERFORMANCE ASSURED

OPTIONAL BLIND COVER FOR DUCTILE IRON GRATING WITH CABLE OPENING

- KTL-coated
- easy opening and closing of the cable inlet and outlet

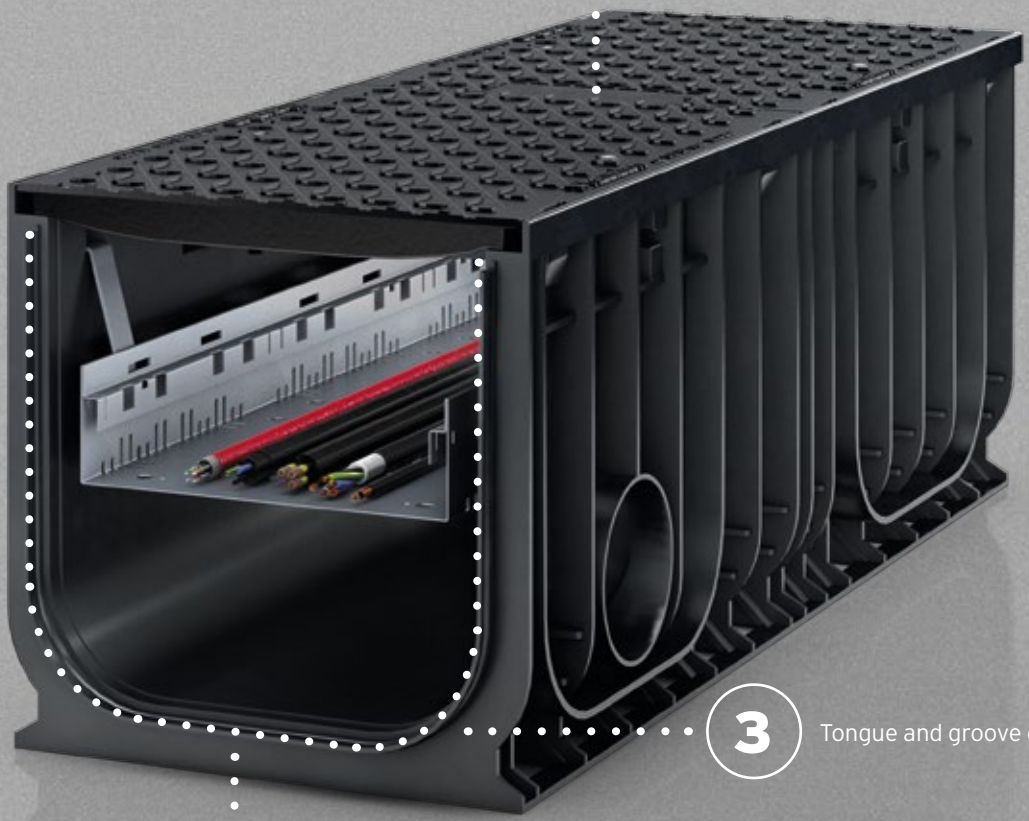
= DESIGN FLEXIBILITY

OPTIONAL CABLE ROUTING SYSTEM

- for guiding cables and wires in an elevated position (see cable routing system accessories)
- easier laying and accessibility of cables and lines

= DESIGN FLEXIBILITY

IDEAL FOR ...
ground installed cable routing applications which are easily accessible at all times.



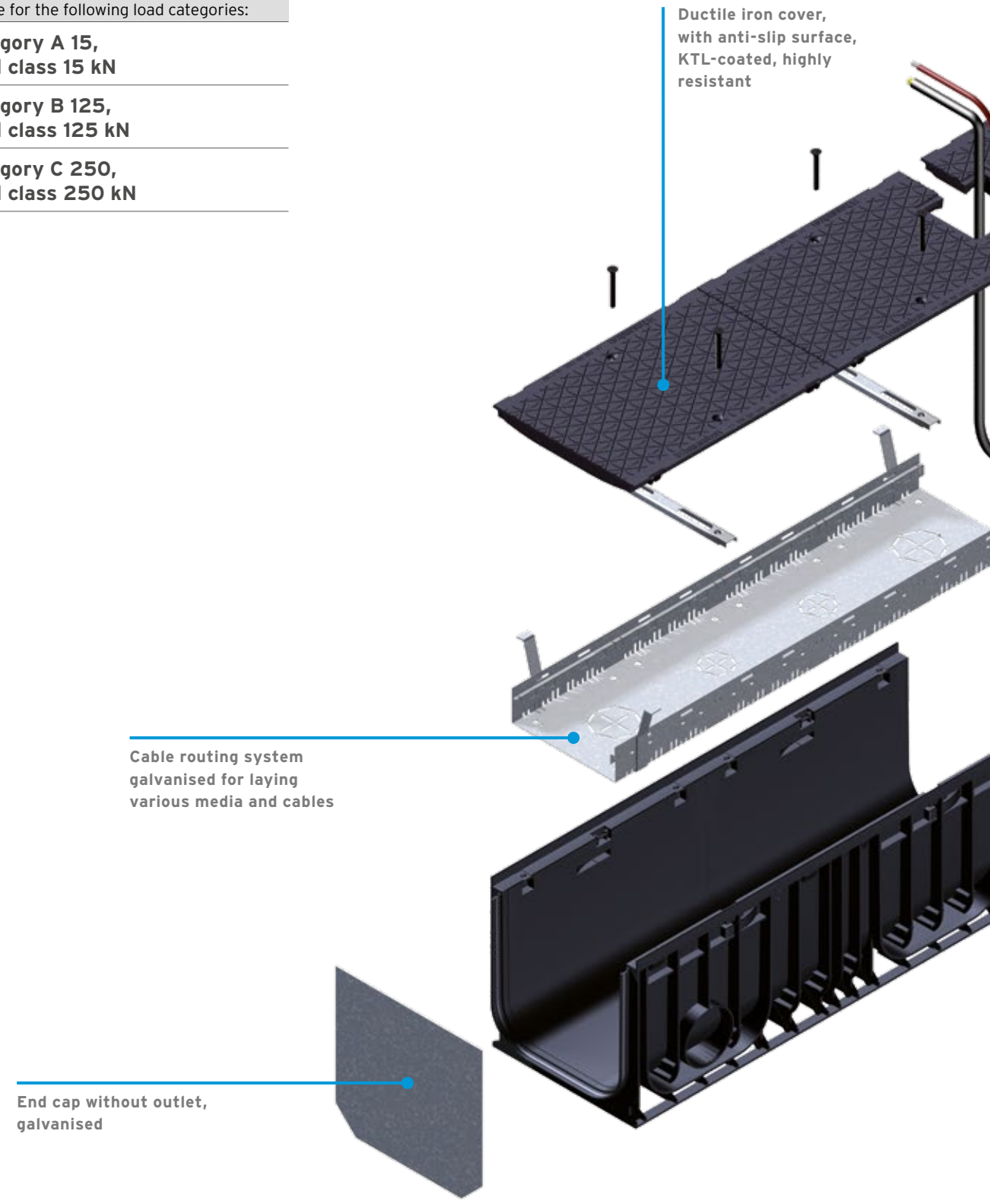
100 % corrosion-free

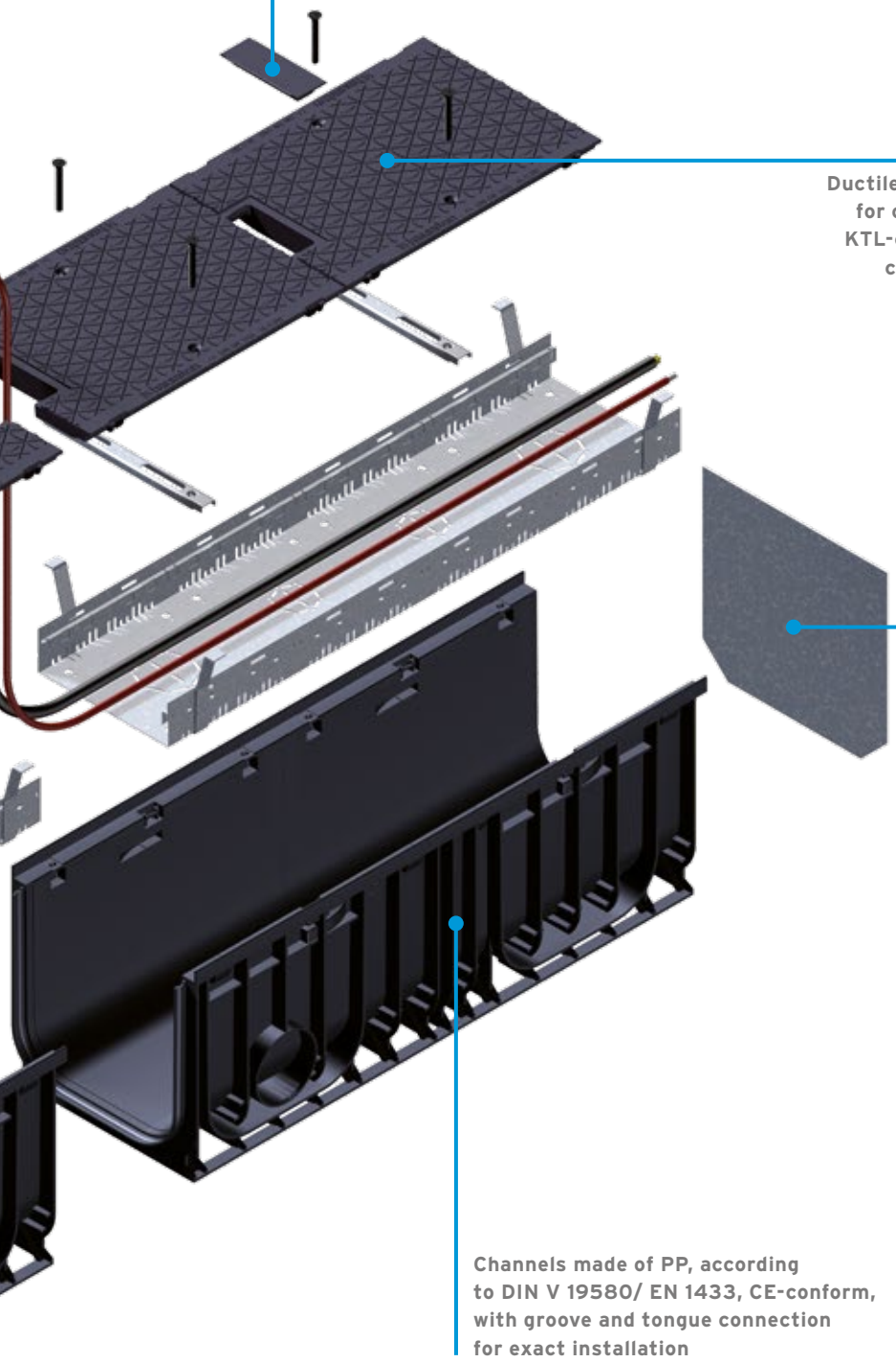
SERVICE CHANNEL RECYFIX PRO

Accessible, floor-mounted system for temporary or permanent organisation and management of supply and information cables.

SERVICE CHANNEL RECYFIX PRO channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:

- **Category A 15, Load class 15 kN**
- **Category B 125, Load class 125 kN**
- **Category C 250, Load class 250 kN**





Cover for cable opening
for ductile iron cover,
black, KTL-coated

Ductile iron cover with opening
for cables, anti-slip surface,
KTL-coated, highly resistant,
can be combined with the
ductile iron cover

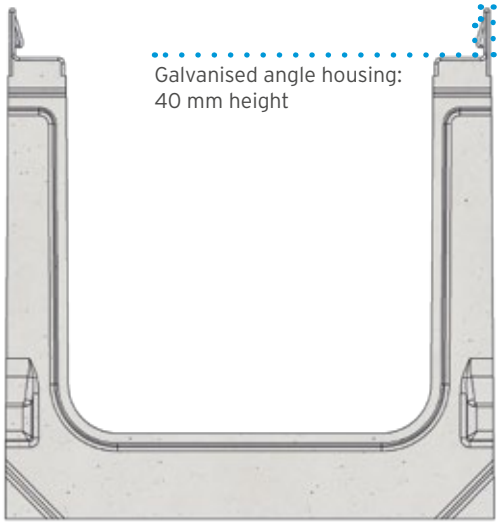
End cap without outlet,
galvanised

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

STRONG.
LARGE.
RELIABLE.

Ideal for:

Floor-mounted cable routing applications which can be easily accessed at all times and used as heavy-duty surfaces.



SERVICE CHANNEL FASERFIX SUPER

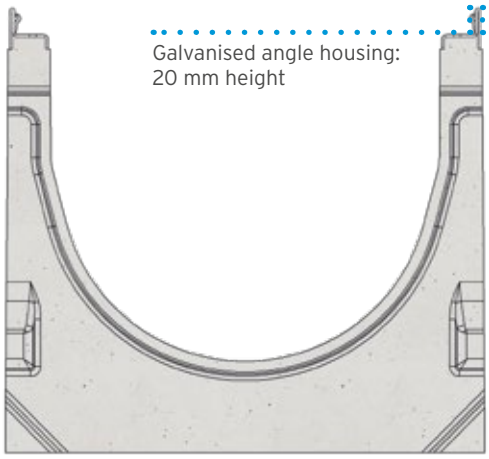
Made of fibre-reinforced concrete with 40 mm angle housing

Nominal width:

- NW 150
- NW 200
- NW 300
- NW 400
- NW 500

Load class:

E 600; extreme load situations and high dynamic forces



SERVICE CHANNEL FASERFIX KS

Made of fibre-reinforced concrete with 20 mm angle housing

Nominal width:

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

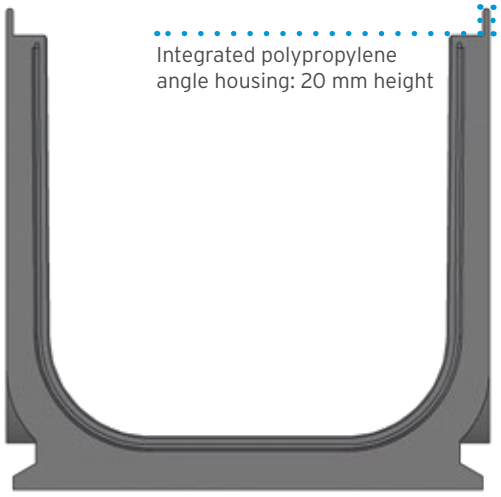
Load class:

E 600; extreme load situations
C 250; medium load situations with moderate traffic

RECYCLABLE.
LIGHT.
RELIABLE.

Ideal for:

Floor-mounted cable routing applications which are easily accessible at all times.



SERVICE CHANNEL RECYFIX PRO

Made of polypropylene with 20 mm integrated polypropylene angle housing

Nominal width:

- NW 200
- NW 300

Load class:

C 250; medium load situations with moderate traffic

DIN 19580 / EN 1433

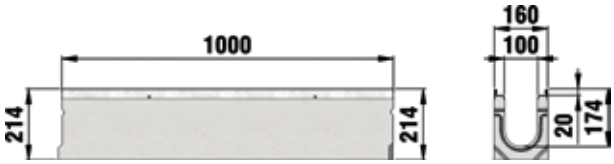
The load classes are described in DIN 19580 / EN 1433 and standardised in classes A 15 to F 900. The specified values refer to the test load in kilo-newtons (kN).

SERVICE CHANNEL 100

Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®KS 100 made of fibre-reinforced concrete with 20 mm angle housing, class E 600

Type 010, 1,0 m



Ductile iron solid cover, black, KTL-coated, locked, 0,5 m

End cap closed, galvanised, type 010

Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	160	214	143	40,21	32049
Type 20, 1,0 m	1000	160	274	206	49,00	32050
Ductile iron solid cover, black, KTL-coated, locked, 0,5 m	500	149	20	-	4,70	32051
End cap closed, galvanised, type 010	-	160	214	0,48	0,48	32052
End cap closed, galvanised, type 020	-	160	274	0,64	0,64	32053
Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	1,60	1,60	705

SERVICE CHANNEL 100

Accessories

Factory-made services

Cutting to length of NW 100

Mitre cuts NW 100 (price per cut, two cuts necessary)

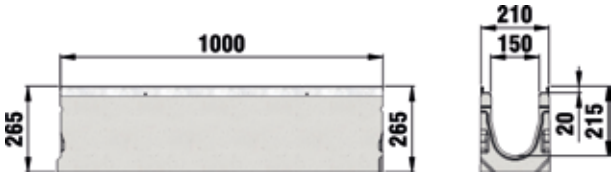
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 100	-	-	-	-	990
Mitre cuts NW 100 (price per cut, two cuts necessary)	-	-	-	-	995

SERVICE CHANNEL 150

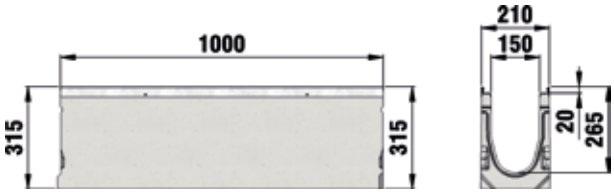
Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®KS 150 made of fibre-reinforced concrete with 20 mm angle housing, class E 600

Type 010, 1,0 m



Type 020, 1,0 m



Ductile iron solid cover, black, KTL-coated, locked, 0,5 m

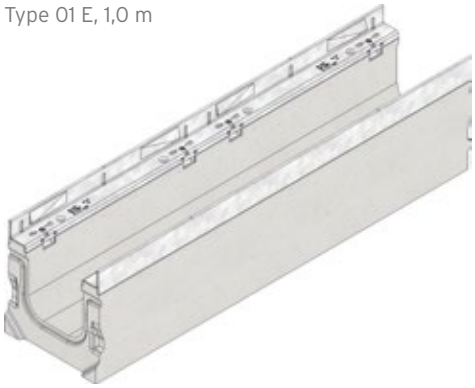
End cap closed, galvanised, type 010

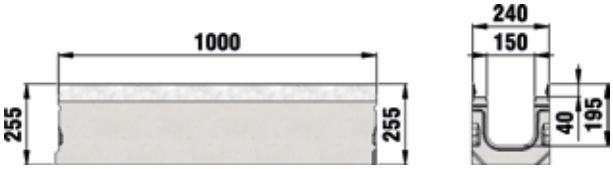
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	210	265	245	60,17	32054
Type 020, 1,0 m	1000	210	315	312	69,55	32055
Ductile iron solid cover, black, KTL-coated, locked, 0,5 m	500	199	20	-	7,00	32059
End cap closed, galvanised, type 010	-	210	265	0,83	0,83	32061
End cap closed, galvanised, type 020	-	210	315	0,99	0,99	32062
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	2,09	136018

SERVICE CHANNEL 150

SERVICE CHANNEL FASERFIX®SUPER 150 made of fibre-reinforced concrete with 40 mm angle housing, class E 600

Type 01 E, 1,0 m





Ductile iron solid cover, black, with plastic caps, 0,5 m

Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m

End cap closed, galvanised, type 01 E

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01 E, 1,0 m	1000	240	255	223	80,00	32056
Ductile iron solid cover, black, with plastic caps, 0,5 m	500	229	40	-	10,70	32060
Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m	500	229	40	-	10,65	32345
End cap closed, galvanised, type 01 E	-	240	255	0,92	0,92	32063
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	2,09	136018

Accessories

Factory-made services

Cutting to length of NW 150

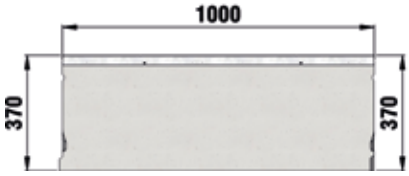
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 150	-	-	-	-	991
Mitre cuts NW 150 (price per cut, two cuts necessary)	-	-	-	-	996

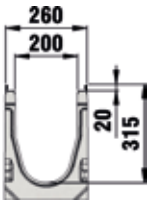
SERVICE CHANNEL 200

Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®KS 200 made of fibre-reinforced concrete with 20 mm angle housing, class C 250 / E 600

Type 020, 1,0 m





Ductile iron solid cover, black, KTL-coated, class C 250, locked, 0,5 m

Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated class C 250, locked, 0,5 m

Ductile iron solid cover, black, KTL-coated, class E 600, locked, 0,5 m

Cover for cable opening for ductile iron solid cover, KTL-coated steel, black

End cap closed, galvanised, type 010

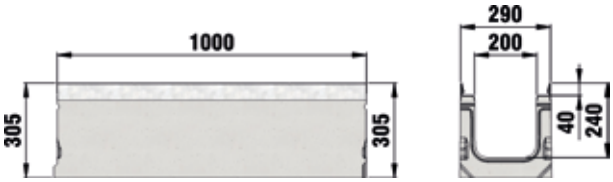
End cap closed, galvanised, type 020

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	260	320	409	84,92	32066
Type 020, 1,0 m	1000	260	370	509	91,64	32067
Ductile iron solid cover, black, KTL-coated, class C 250, locked, 0,5 m	500	249	20	-	7,35	32033
Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated class C 250, locked, 0,5 m	500	249	20	-	8,09	32037
Ductile iron solid cover, black, KTL-coated, class E 600, locked, 0,5 m	500	249	20	-	8,70	32072
Cover for cable opening for ductile iron solid cover, KTL-coated steel, black	152	59	20	-	-	32048
End cap closed, galvanised, type 010	-	260	320	1,23	1,23	32076
End cap closed, galvanised, type 020	-	260	370	1,46	1,46	32077
Installation aid NW 200 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,62	2,62	136202

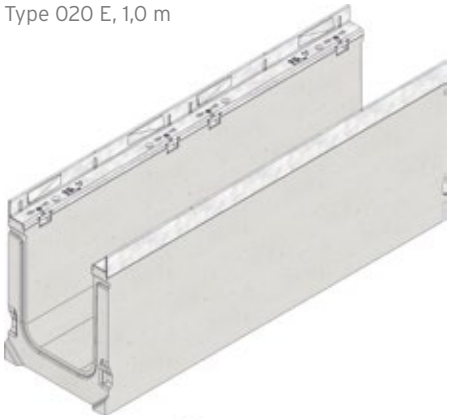
SERVICE CHANNEL 200

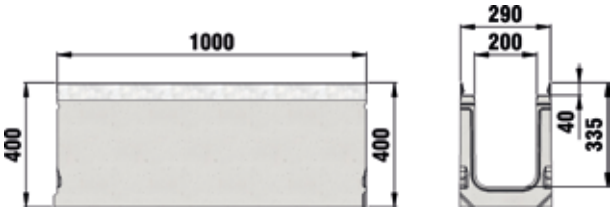
SERVICE CHANNEL FASERFIX®SUPER 200 made of fibre-reinforced concrete with 40 mm angle housing, class E 600

Type 01 E, 1,0 m



Type 020 E, 1,0 m





Ductile iron solid cover, black, with plastic caps, 0,5 m

Ductile iron solid cover, black, KTL-coated, with plastic cap, locked, 0,5 m

End cap closed, galvanised, type 010 E

End cap closed, galvanised, type 020 E

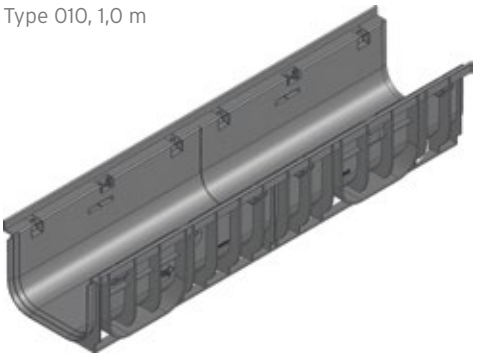
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01 E, 1,0 m	1000	290	305	386	104,50	32068
Type 010 E, 1,0 m	1000	290	350	473	113,50	32069
Type 020 E, 1,0 m	1000	290	400	568	124,50	32070
Ductile iron solid cover, black, with plastic caps, 0,5 m	500	279	40	-	13,40	32073
Ductile iron solid cover, black, KTL-coated, with plastic cap, locked, 0,5 m	500	279	40	-	13,40	32348
End cap closed, galvanised, type 01 E	-	290	305	1,43	1,43	32078
End cap closed, galvanised, type 010 E	-	290	350	1,66	1,66	32079
End cap closed, galvanised, type 020 E	-	290	400	1,88	1,88	32080
Installation aid NW 200 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,62	2,62	136202

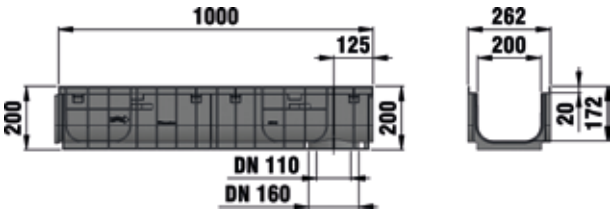
SERVICE CHANNEL 200

Systems SERVICE CHANNELS

SERVICE CHANNEL RECYFIX®PRO 200 made of polypropylene with 20 mm integrated polypropylene angle housing, class C 250

Type 010, 1,0 m





Ductile iron solid cover with opening for cables, (128 mm x 49 mm), black, KTL-coated, locked, 0,5 m

Ductile iron solid cover, black, KTL-coated, locked, 0,5 m

Cover for cable opening for ductile iron solid cover, KTL-coated steel, black

End cap with or without horizontal pipe outlet DN/OD 110, modified PP, type 010

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	262	200	294	3,17	32071
Ductile iron solid cover, black, KTL-coated, locked, 0,5 m	500	249	20	-	8,41	32074
Ductile iron solid cover with opening for cables, (128 mm x 49 mm), black, KTL-coated, locked, 0,5 m	500	249	20	-	8,09	32075
Cover for cable opening for ductile iron solid cover, KTL-coated steel, black	152	59	20	-	-	32048
End cap with or without horizontal pipe outlet DN/OD 110, modified PP, type 010	-	258	217	0,20	0,20	32081
Locking handle and screw	-	-	-	0,05	0,05	32082

SERVICE CHANNEL 200

Accessories

Cable routing system

Cable tray, galvanised,
FASERFIX SUPER /
RECYFIX PRO 200, 1,0 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cable tray, galvanised, SERVICE CHANNEL FASERFIX KS 200, 1,0 m	-	-	-	2,74	32083
Cable tray, galvanised, FASERFIX SUPER / RECYFIX PRO 200, 1,0 m	-	-	-	2,73	32084

Factory-made services

Cutting to length
of NW 200

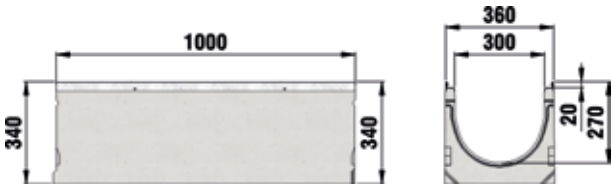
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 200	-	-	-	-	992
Mitre cuts NW 200 (price per cut, two cuts necessary)	-	-	-	-	997

SERVICE CHANNEL 300

Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®KS 300 made of fibre-reinforced concrete with 20 mm angle housing, class C 250

Type 010, 1,0 m



Ductile iron solid cover, black, KTL-coated, locked, 0,5 m

Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated, locked, 0,5 m

Cover for cable opening for ductile iron solid cover, KTL-coated steel, black

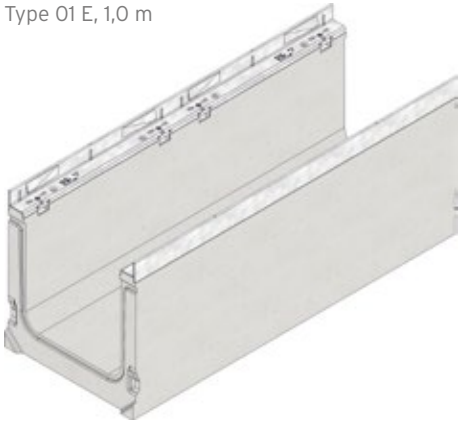
End cap closed, galvanised, type 010

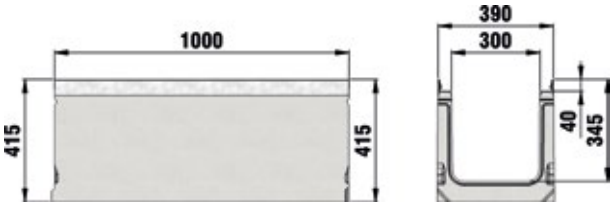
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	360	340	634	117,21	32085
Ductile iron solid cover, black, KTL-coated, locked, 0,5 m	500	349	20	-	11,80	32041
Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated, locked, 0,5 m	500	349	20	-	14,10	32045
Cover for cable opening for ductile iron solid cover, KTL-coated steel, black	152	59	20	-	-	32048
End cap closed, galvanised, type 010	-	360	340	1,87	1,87	32091
Installation aid NW 300 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	3,66	3,66	136242

SERVICE CHANNEL 300

SERVICE CHANNEL FASERFIX®SUPER 300 made of fibre-reinforced concrete with 40 mm angle housing, class E 600

Type 01 E, 1,0 m





Ductile iron solid cover, black, with plastic caps, 0,5 m

Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m

End cap closed, type 01 E

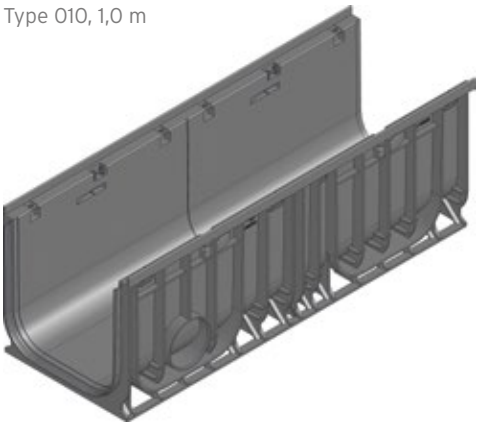
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01 E, 1,0 m	1000	390	415	900	133,65	32086
Ductile iron solid cover, black, with plastic caps, 0,5 m	500	377	40	-	21,50	32088
Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m	500	377	40	-	21,50	32346
End cap closed, type 01 E	-	390	415	2,67	2,67	32092
Installation aid NW 300 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	3,66	3,66	136242

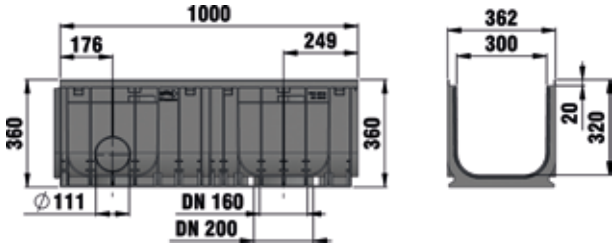
SERVICE CHANNEL 300

Systems SERVICE CHANNELS

SERVICE CHANNEL RECYFIX®PRO 300 made of polypropylene with 20 mm integrated polypropylene angle housing, class C 250

Type 010, 1,0 m





Ductile iron solid cover, black, KTL-coated, locked, 0,5 m

Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated, locked, 0,5 m

Cover for cable opening for ductile iron solid cover, KTL-coated steel, black

Locking handle and screw

End cap closed, galvanised, type 010

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 010, 1,0 m	1000	362	360	873	7,64	32087
Ductile iron solid cover, black, KTL-coated, locked, 0,5 m	500	349	20	-	11,80	32089
Ductile iron solid cover with opening for cables, (SW 128/49 mm), black, KTL-coated, locked, 0,5 m	500	349	20	-	14,10	32090
Cover for cable opening for ductile iron solid cover, KTL-coated steel, black	152	59	20	-	-	32048
Locking handle and screw	-	-	-	0,35	0,35	32094
End cap closed, galvanised, type 010	-	360	360	1,87	1,87	32093

SERVICE CHANNEL 300

Accessories

Cable routing system

Cable tray, galvanised, SERVICE CHANNEL FASERFIX KS 300, 1,0 m

Cable tray, galvanised, SERVICE CHANNEL FASERFIX SUPER/ RECYFIX PRO 300, 1,0 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cable tray, galvanised, SERVICE CHANNEL FASERFIX KS 300, 1,0 m	-	-	-	3,21	32095
Cable tray, galvanised, SERVICE CHANNEL FASERFIX SUPER/RECYFIX PRO 300, 1,0 m	-	-	-	4,20	32096

Factory-made services

Cutting to length of NW 300

Mitre cuts NW 300 (price per cut, two cuts necessary)

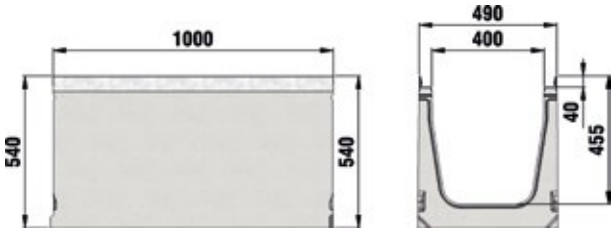
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 300	-	-	-	-	993
Mitre cuts NW 300 (price per cut, two cuts necessary)	-	-	-	-	998

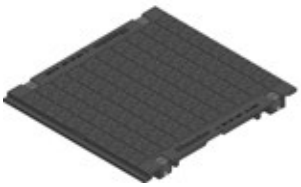
SERVICE CHANNEL 400

Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®SUPER 400 made of fibre-reinforced concrete with 40 mm angle housing, class E 600

Type 01 E, 1,0 m





Ductile iron solid cover, black, with plastic caps, 0,5 m

End cap closed, galvanised, type 01

Installation aid NW 400 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01 E, 1,0 m	1000	490	540	1498	255,00	32097
Ductile iron solid cover, black, with plastic caps, 0,5 m	500	477	40	-	32,00	32098
End cap closed, galvanised, type 01	-	490	540	4,90	4,90	32099
Installation aid NW 400 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	5,23	5,23	136304

SERVICE CHANNEL 400

Accessories

Factory-made services

Cutting to length of NW 400

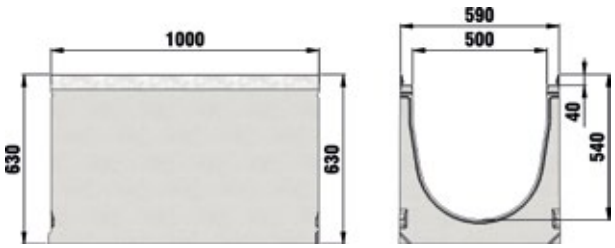
	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 400	-	-	-	-	985
Mitre cuts NW 400 (price per cut, two cuts necessary)	-	-	-	0,01	949

SERVICE CHANNEL 500

Systems SERVICE CHANNELS

SERVICE CHANNEL FASERFIX®SUPER 500 made of fibre-reinforced concrete with 40 mm angle housing, class E 600

Type 01, 1,0 m



Ductile iron solid cover, black, with plastic caps, 0,5 m

Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m

End cap closed, galvanised, type 01

Installation aid NW 500 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	590	630	-	307,48	32101
Ductile iron solid cover, black, with plastic caps, 0,5 m	500	577	40	-	42,00	32102
Ductile iron solid cover, black, KTL-coated, with plastic caps, locked, 0,5 m	500	577	40	-	42,00	32347
End cap closed, galvanised, type 01	-	590	630	6,79	6,79	32103
Installation aid NW 500 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	6,51	6,51	136366

SERVICE CHANNEL 500

Accessories

Factory-made services

Cutting to length of NW 500

	Length mm	Width mm	Height mm	Weight kg	Item No.
Cutting to length of NW 500	-	-	-	-	989
Mitre cuts NW 500 (price per cut, two cuts necessary)	-	-	-	0,01	959

hauraton
IT'S RUNNING WELL

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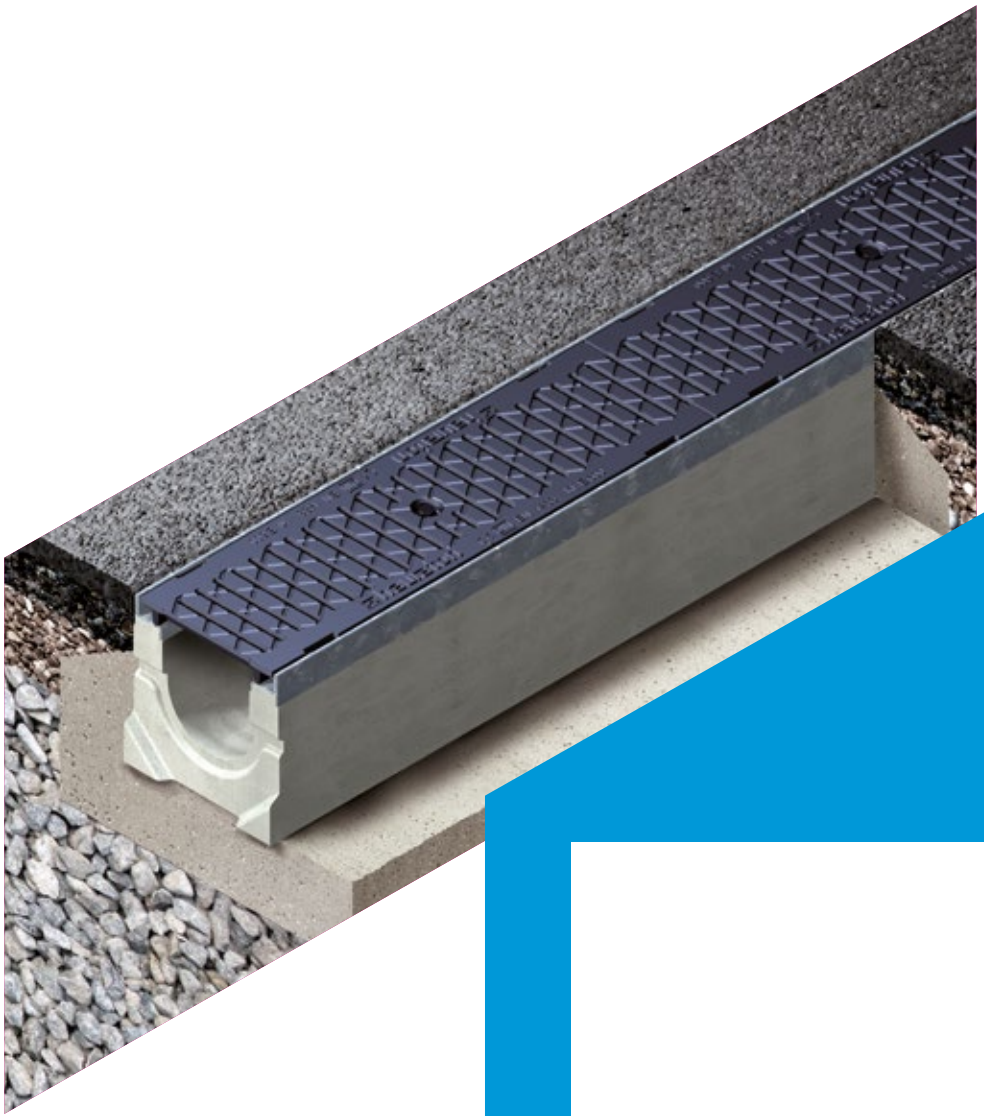

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hauraton
IT'S RUNNING WELL

LANDSCAPING

The drainage range
for domestic use and landscaping

Version 2.9.2

Our benefits with products from **HAURATON**:

„Corrosion-free channel systems from HAURATON provide for satisfied customers. Permanently resistant, effective installation and great design. Is there anything else you desire?“

Customer benefits
How you profit from HAURATON. 4

RECYFIX PRO
Corrosion-free drainage channels
for private and public areas. 10

RECYFIX PLUS
Drainage channels with sophisticated look
for public and commercial areas. 48

RECYFIX STANDARD
Drainage channel for domestic applications
around the house and garden. 78

Facade Drainage
Reliable water retention system for terraces,
facades and flat roofs. 108

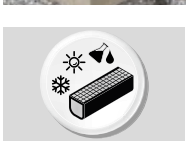
SLOTTED CHANNELS
Slotted channels for design-sensitive applications. 182

RECYFIX POINT
FASERFIX POINT
Point drainage for yards, garages and patios. 220

RECYFIX GREEN
Turf honeycomb for infiltration of rainwater
in parking areas. 232

LINEFIX
Effective border edging for garden and park areas. 240

TOP X
The drainage channel for private driveways, courtyards,
patios and gardens. 248



Technical information for applied materials
Resistance list for the materials **RECYFIX** and **FASERFIX** 260

„Security in design and material - that‘s all I expect from a good drainage channel.“
My benefit as an Architect with **HAURATON**:
award-winning
durable
meets all standards
My benefit:
Quality assured

Security during planning process

HAURATON offers architects as partners a maximum planning security. Products and processes are constantly monitored and are subject to stringent quality requirements.

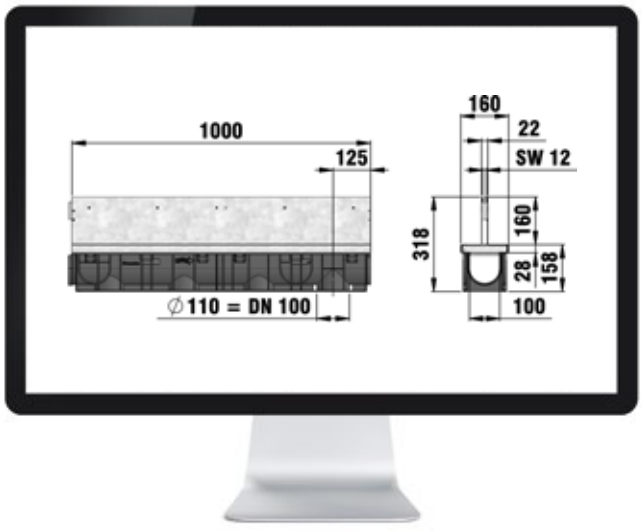
Standards, approvals and warranties

- channels certified according to DIN EN 1433
- testing certificates from external institutes
- CE-Labels
- quality certification in accordance with DIN EN ISO 9001:2015

CE compliant

Planning support

- DWG drawings for all products on the internet for total planning security
- Specification assistant with detailed search function to find the optimal products for various applications



„There are plenty of activities happening on site. With the unbreakable channel, I am able to save costs and hassle.
Moreover, due to its extremely light weight, the channel is highly back-friendly."

My benefit as Landscape Gardener with **HAURATON**:

+ quick installation

+ absolutely stable

= *My benefit:* **Cost savings**

Lightweight for easy, quick and cost-efficient installation.

- highest stability with minimised weight
- much lighter than conventional channels made of mineral materials. In comparison: one polymer channel weighs as much as 2.5 m RECYFIX 100
- very easy to transport and install

1 m NS 100 Channel incl. grating = 4 kg
1 m NS 200 Channel incl. grating = 8 kg

RECYFIX – stable and unbreakable:

- high-tech material developed by a well-known Research Institute for Recycling-Plastic
- durable resistance against frost, de-icing salt and UV radiation
- elastic and ultra-strong material
- stable already during installation, compacting of paved surfaces along the channel is possible - no breakage means that the construction schedule can be met
- withstands high traffic loads and temperature differences in daily use

„I can provide my customers a channel which is quickly and easily loaded into a car; and I profit from a higher stock turnover."

My benefit as a Construction Material Dealer with **HAURATON**:

+ optimised stock handling

+ low transport costs

= *My benefit:* **Better gross margin**

Better gross margin through optimising stock handling and low transport costs.

- easy loading without staff and forklift
- pre-assembled, no spare parts on stock
- fewer pallet storage lots required

RECYFIX PRO

Corrosion-free drainage channels for private and public areas.

European-quarter
in Frankfurt, Germany

RECYFIX PRO

Corrosion-free drainage channels for private and public areas.

1 Requirements

Drainage channels for optically attractive areas have to

- be modern and unique in its design
- be extremely stable to guarantue long-term and permanent security
- be resistant to environmental influences (frost, heat and moisture)
- be dimensioned for high loading categories
- be designed in accordance with DIN EN 1433

2 Application areas

- private and public areas
- squares and parks
- railway platforms
- driveways and parking lots
- reduced trafficked areas

3 Solutions

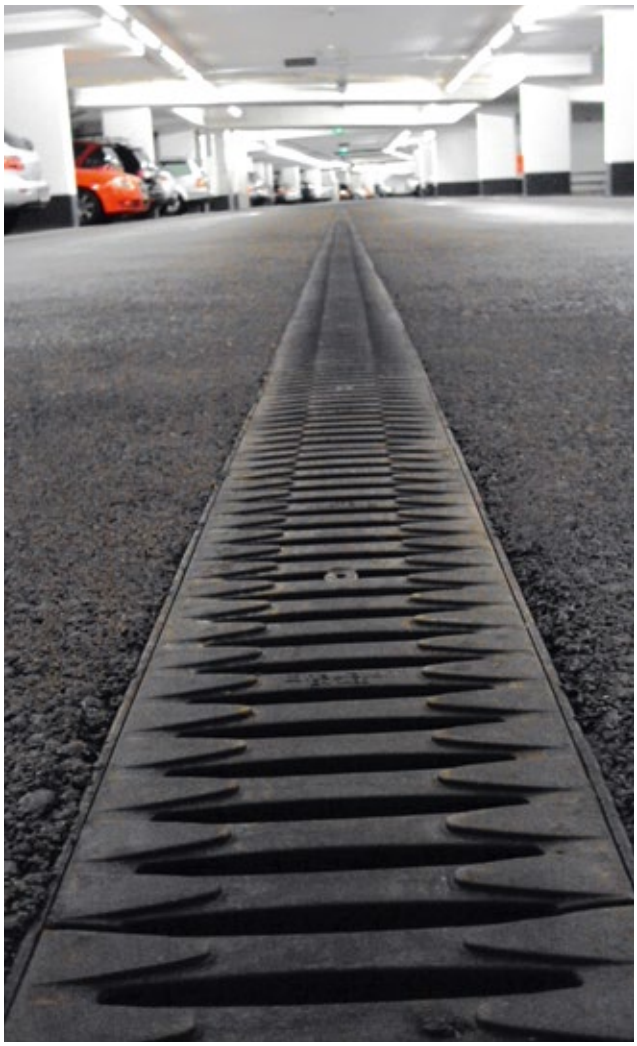
Therefore RECYFIX PRO channels are suitable for the drainage of sophisticated areas:

- channel and angle housing made of 100 % recycled composite
- secure and corrosion-free grating support
- loading capacity up to C 250
- hydraulically optimised FIBRETEC slotted grating

100% corrosion-free, especially with frost and de-icing salt

Platform in Limburg, Germany

EACT Academy in Oldham Manchester, UK



Car park Andritz group Vienna, Austria

School in Sunderland, UK

YOUR BENEFITS WITH **RECYFIX** PRO

ANGLE HOUSING

- PP-angle housing 20 x 20 mm acc. to DIN 19580 for additional flexibility
- nibs to stop lateral movements
- inlaying gratings

= PERFORMANCE ASSURED

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- much lighter than channels made of polymer/resin concrete
- easy transport and installation

= TIME & COST SAVINGS

HIGH RESISTANCE

- high resistance against frost, de-icing salt and UV-rays
- withstands high temperature differences
- for climate ranges from - 50 °C to + 80 °C and more

= QUALITY ASSURED / LONGEVITY

HIGH-GRADE MATERIAL

- **RECYFIX** – stable and almost unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use
- 100 % recycled composite body (and also 100 % recyclable) → 100 % environmentally friendly
- 0 % water absorption
- smooth inner surface for superior flow characteristics
- non-conductive
- PP channel body can be cut, drilled and worked easily on site

= QUALITY & PERFORMANCE ASSURED

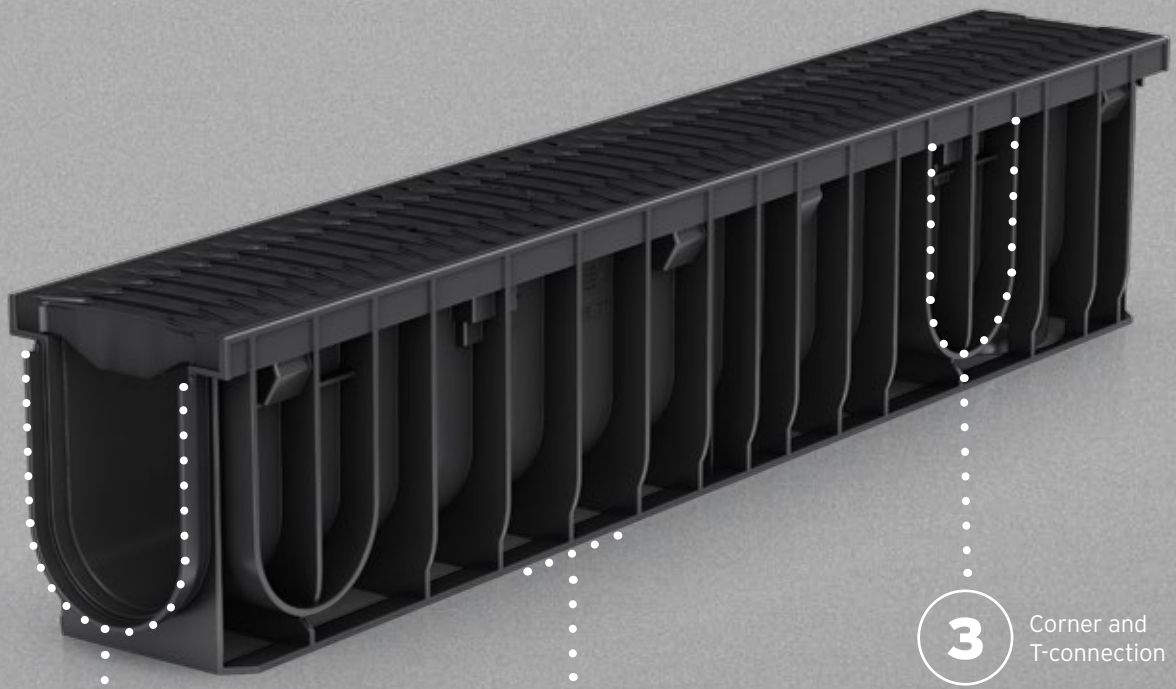
PRE-ASSEMBLED READY FOR INSTALLATION

- channel and grating = one part
- no spare parts
- easy handling in stock and on construction site
- cost-efficient transport

= BETTER GROSS MARGIN

IDEAL FOR ...

applications with corrosion-free linear drainage for private and public areas, such as parks, driveways and parking lots.



1 Tongue and groove connection & safety joint according to EN 1433

2 Anti floating

3 Corner and T-connection

100 % corrosion-free

RECYFIX PRO

Corrosion-free drainage channels for private and public areas.

Modern office complex in Düsseldorf is drained with **RECYFIX** PRO.

RECYFIX PRO

In the centre of Düsseldorf, Germany on the area of some old barracks a new business world - named after the artist couple Clara & Robert Schumann - has arisen. Two new seven-storey buildings were built with the historical Saarhaus where parts of the old facade were preserved and framed within the new facade of the modern office complex. The modern office complex offers a rental area of 16,500 square metres. Modern locations require modern drainage concepts. Around 300 metres of the RECYFIX PRO 100 type 010 have been installed with a ductile iron longitudinal grating in KTL.

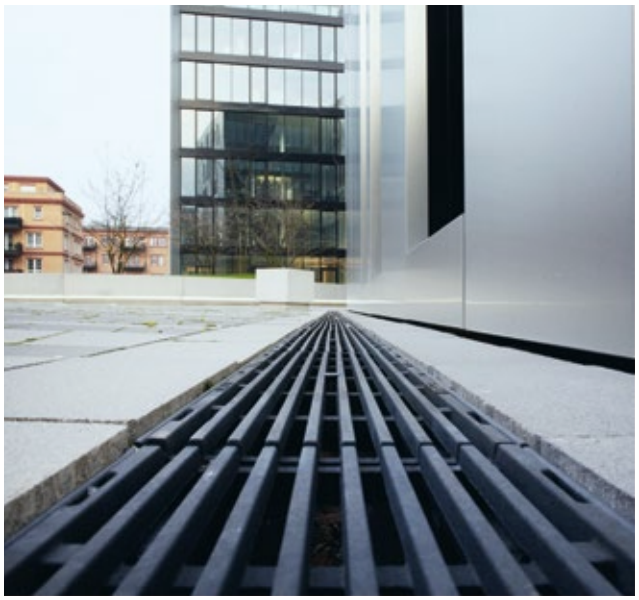
The benefit for Landscaping Architects:

- Security in design and material
  - durable and reliable drainage system
  - fulfills all norms
- Harmonious architecture:
  - the filigree ductile iron longitudinal gratings blend in with the pavement and the anthracite-coloured windows

The benefit for Landscape Gardeners:

- Cost savings and back-friendly installation
  - low weight
  - easy installation and processing (cutting of fitting pieces and mitres)
  - easy transport to the construction site

Clara & Robert office complex, Düsseldorf, Germany



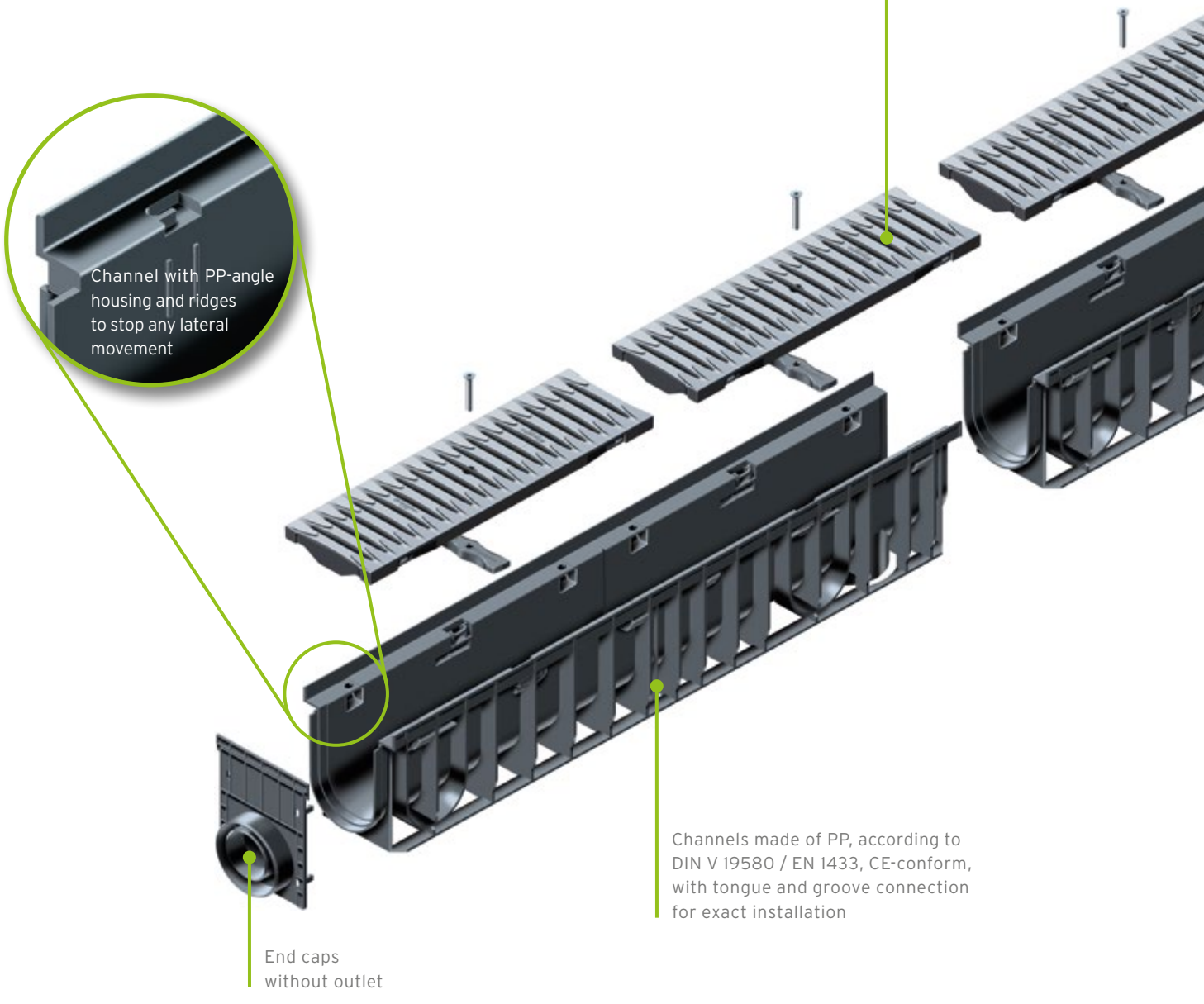
RECYFIX PRO

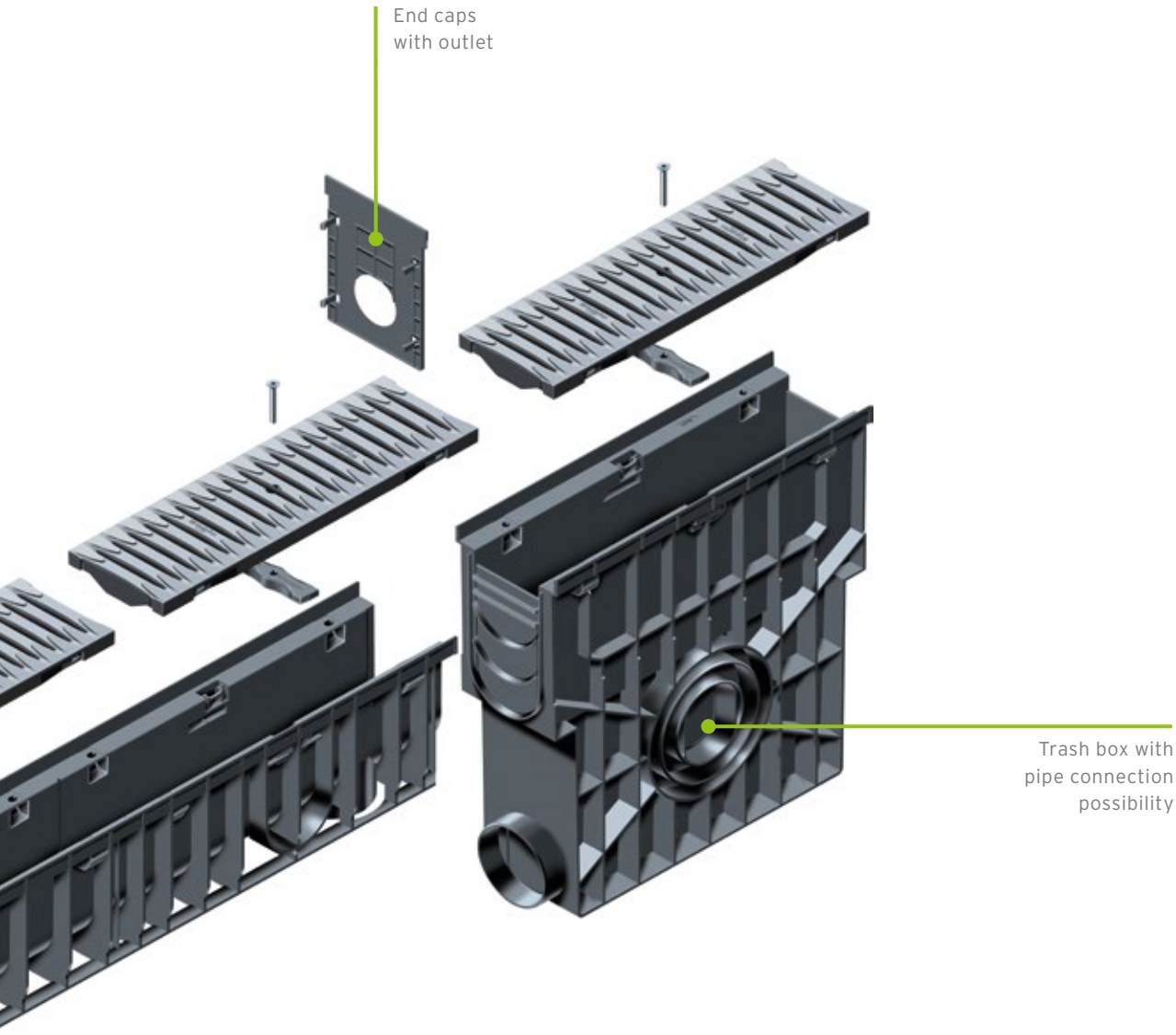
Corrosion-free drainage channels for private and public areas.

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

	Category A 15, Load class 15 kN
	Category B 125, Load class 125 kN
	Category C 250, Load class 250 kN
	Category D 400, Load class 400 kN

If in doubt, the higher category should be used.





The construction widths and heights of the **RECYFIX** PRO:

Nominal width	100			150			200			300		
Type 75	160	75	55	-	-	-	-	-	-	-	-	-
Type 95	160	95	75	-	-	-	-	-	-	-	-	-
Type 115	-	-	-	212	115	95	262	115	95	-	-	-
Type 01	160	150	122	212	210	180	-	-	-	-	-	-
Type 010	160	200	172	-	-	-	262	200	172	362	360	320
Type 020	160	250	222	-	-	-	-	-	-	-	-	-

Width/height/inner height (in mm)

The new style of drainage!

Artistically combined, uniquely attractive: coloured FIBRETEC gratings.

FIBRETEC

The art of drainage has many styles. With the coloured FIBRETEC gratings, HAURATON creates a completely new scope of design.

The unique channel gratings in the colours Fern, Sand and Stone can be combined with different materials. Thus, new compositions of colours and textures can always be created. As desired, the coloured FIBRETEC gratings can accentuate the colour composition of the surroundings or harmonise as a complete work of art.

Focus Open Silver 2010

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

UV

The production of the coloured FIBRETEC gratings in the colours Fern, Sand and Stone is done with coloured granulate. The result is uniformly coloured gratings which are particularly weather and UV-resistant.
This was tested and approved in the laboratory according to DIN EN ISO 4892-2 as required by DIN 19580:
The 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.

FIBRETEC in Fern

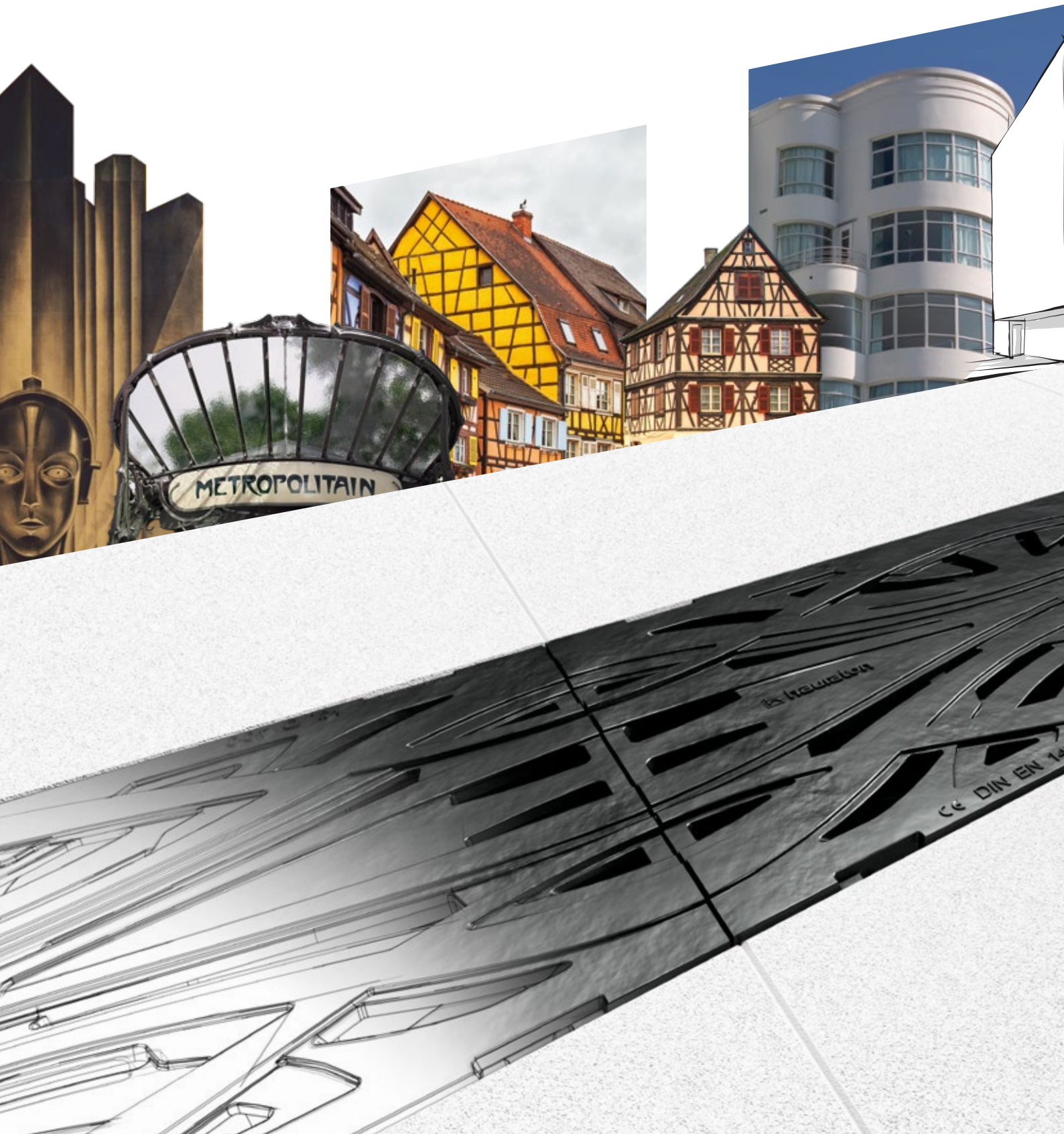
FIBRETEC in Sand

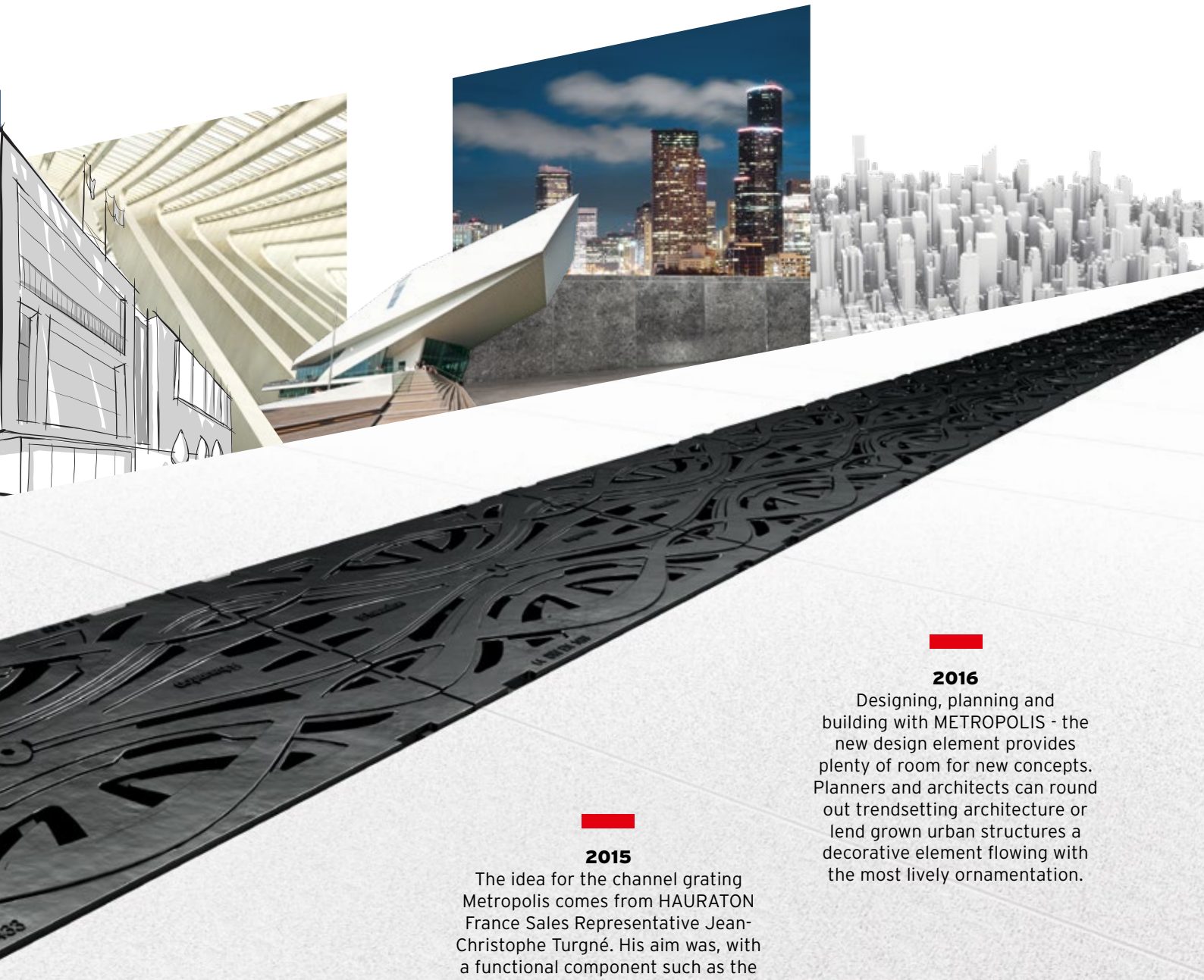
FIBRETEC in Stone

FIBRETEC in Black

METROPOLIS

Inspired from history – Made for the future





1927
The movie ‚Metropolis', by Fritz Lang, has influenced various genres since its creation in 1927. With the expressionist representation of a futuristic metropolis, the film producer developed a leitmotif that still inspires artists and designers today.

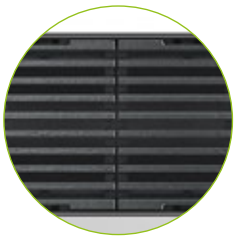
2015
The idea for the channel grating Metropolis comes from HAURATON France Sales Representative Jean-Christophe Turgné. His aim was, with a functional component such as the drainage channel, to set standards with respect to aesthetics and to impart specific construction projects with futuristic, decorative details.

2016
Designing, planning and building with METROPOLIS - the new design element provides plenty of room for new concepts. Planners and architects can round out trendsetting architecture or lend grown urban structures a decorative element flowing with the most lively ornamentation.

Grating options
RECYFIX PRO 100

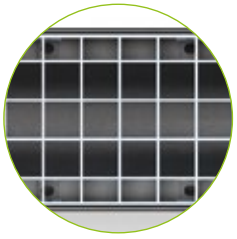
Longitudinal ductile iron gratings, galvanised

Bar distance: 9 mm



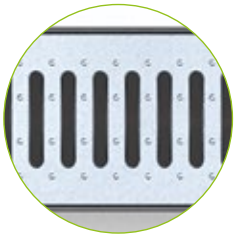
Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



Mesh gratings, galvanised

Mesh width: 30 x 30 mm

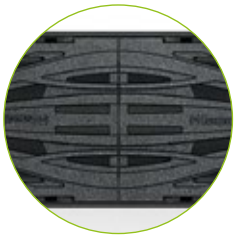


Slotted gratings and reinforced slotted gratings, galvanised and stainless steel

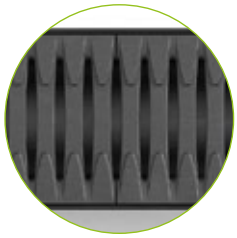
Bar distance: 80 x 10 mm

GUGI-Mesh gratings, composite material

Mesh width: 15 x 25 mm

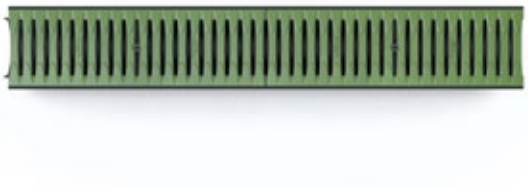


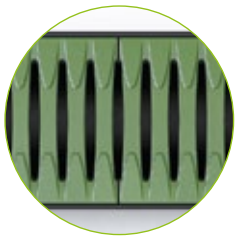
Ductile iron grating, METROPOLIS, KTL



FIBRETEC Slotted gratings, in Black

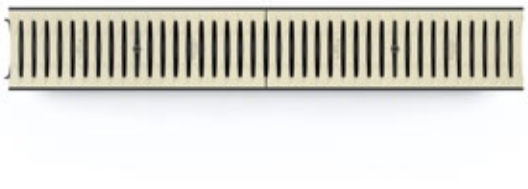
Bar distance: 9 mm

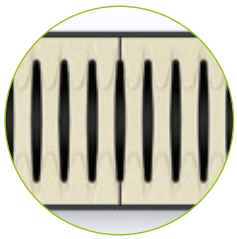




FIBRETEC Slotted gratings, in Fern

Bar distance: 9 mm





FIBRETEC Slotted gratings, in Sand

Bar distance: 9 mm

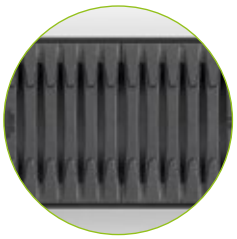
FIBRETEC Slotted gratings, in Stone

Bar distance: 9 mm

Grating options
RECYFIX PRO 150

Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



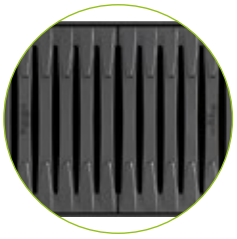
FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm

Grating options
RECYFIX PRO 200

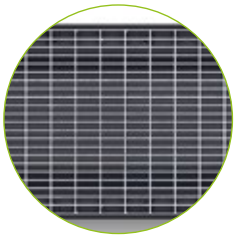
Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm

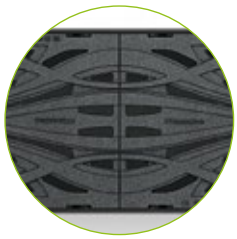


Mesh gratings, galvanised and stainless steel

Bar distance: 30 x 10 mm

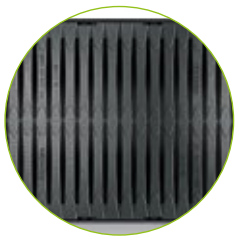
Ductile iron gratings, G-TEC

Bar distance: 2 x 85 x 9 mm



Ductile iron grating, METROPOLIS, KTL

Grating options
RECYFIX PRO 300



Ductile iron gratings, G-TEC

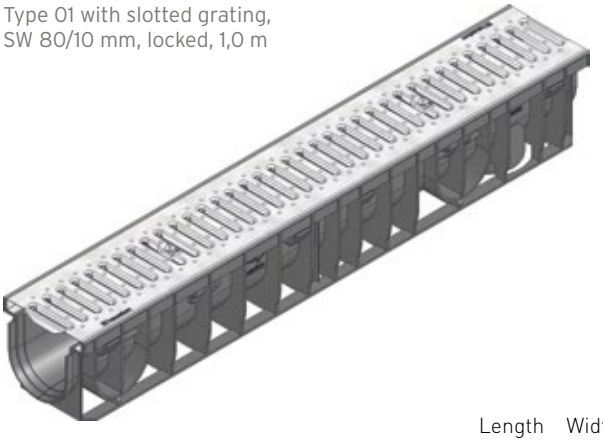
Bar distance: 2 x 141 x 9 mm

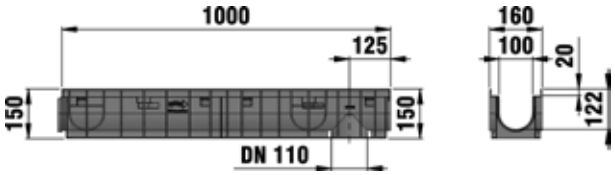
RECYFIX®PRO 100

Combi article

RECYFIX®PRO 100, class A 15

Type 01 with slotted grating,
SW 80/10 mm, locked, 1,0 m





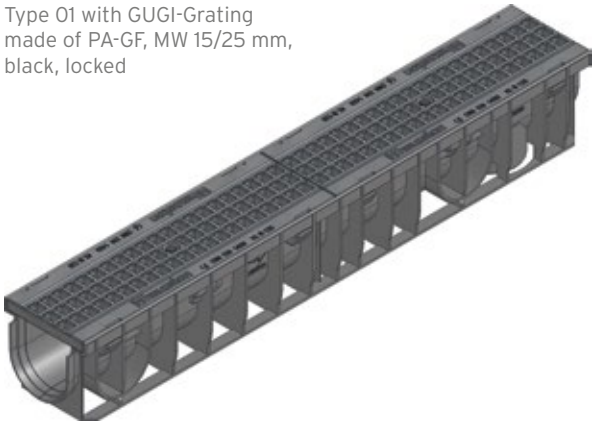
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	150	92	278	4,83	47021	47026
Type 0105 with slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	150	92	278	2,37	47022	47027
Type 010 with slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	200	142	278	5,42	47023	47028
Type 01005 with slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	200	142	278	2,69	47024	47029
Type 020 with slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	250	192	278	6,55	48621	48622
Type 02005 with slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	250	192	278	3,20	48671	48672
Type 75 with slotted grating, SW 80/10 mm, locked, 1,0 m*	1000	160	75	35	278	3,96	47018	47012
Type 95 with slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	95	55	278	4,63	47019	47013

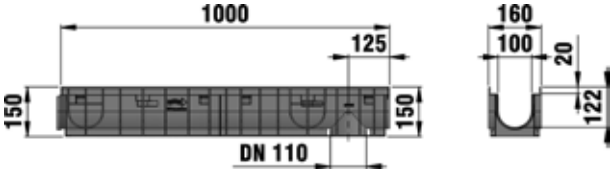
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PRO 100

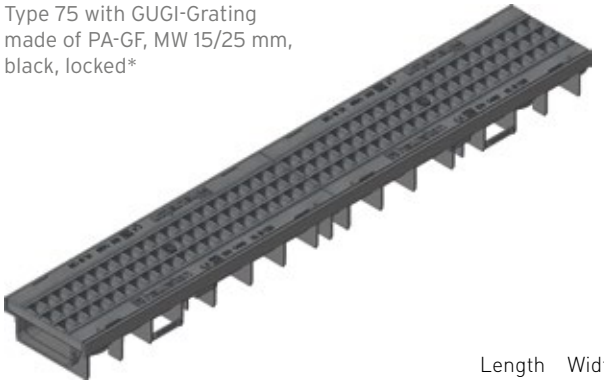
RECYFIX®PRO 100, class B 125

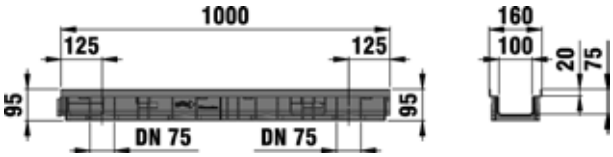
Type 01 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked





Type 75 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked*





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 1,0 m	1000	160	150	92	444	4,26	47035	-
Type 0105 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 0,5 m	500	160	150	92	444	2,07	47036	-
Type 010 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 1,0 m	1000	160	200	142	444	4,66	47040	-
Type 01005 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 0,5 m	500	160	200	142	444	2,53	47041	-
Type 020 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 1,0 m	1000	160	250	192	444	5,50	48623	-
Type 02005 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 0,5 m	500	160	250	192	444	2,80	48673	-
Type 75 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 1,0 m*	1000	160	75	35	444	2,94	47032	-
Type 95 with GUGI-Grating made of PA-GF, MW 15/25 mm, black, locked, 1,0 m	1000	160	95	55	444	3,60	47033	-
Type 01 with mesh grating, MW 30/10 mm, locked, 1,0 m	1000	160	150	92	1099	6,05	47034	47037
Type 0105 with mesh grating, MW 30/10 mm, locked, 0,5 m	500	160	150	92	1080	3,02	47157	47158

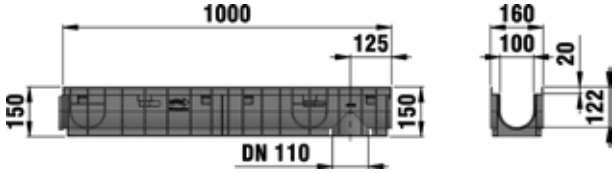
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PRO 100

Combi article

RECYFIX®PRO 100, class C 250

Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m

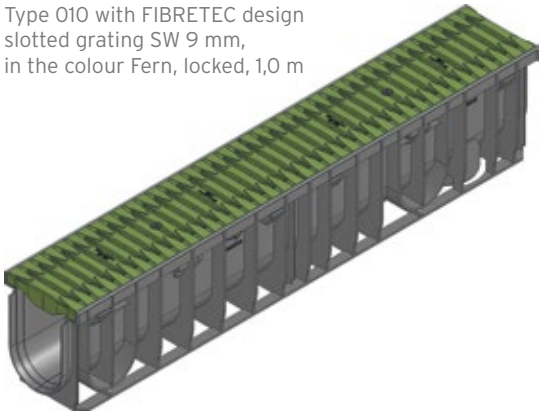


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	160	150	92	372	4,60	47055	-
Type 0105 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 0,5 m	500	160	150	92	372	2,26	47056	-
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	160	200	142	372	4,89	47060	-
Type 01005 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 0,5 m	500	160	200	142	372	2,49	47061	-
Type 020 with FIBRETEC design slotted grating, SW 9 mm, in the colour Black, locked, 1,0 m	1000	160	250	192	372	5,76	48625	-
Type 02005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Black, locked, 0,5 m	500	160	250	192	372	2,95	48675	-
Type 75 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	160	75	35	372	3,45	47062	-
Type 95 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	160	95	55	372	3,68	47063	-
Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 1,0 m	1000	160	150	92	372	4,35	47405	-
Type 0105 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 0,5 m	500	160	150	92	372	2,12	47421	-
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 1,0 m	1000	160	200	142	372	4,89	47406	-
Type 01005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 0,5 m	500	160	200	142	372	2,44	47422	-
Type 020 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 1,0 m	1000	160	250	192	372	5,76	47407	-
Type 02005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 0,5 m	500	160	250	192	372	2,88	47423	-
Type 75 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 1,0 m*	1000	160	75	35	372	3,33	47403	-
Type 95 with FIBRETEC design slotted grating, SW 9 mm, in the colour Sand, locked, 1,0 m	1000	160	95	55	372	3,68	47404	-

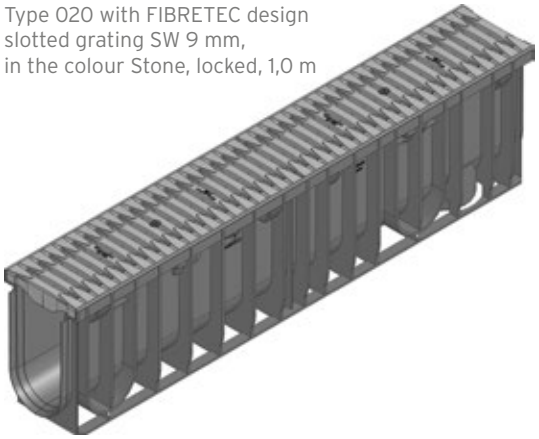
RECYFIX®PRO 100

RECYFIX®PRO 100, class C 250

Type 010 with FIBRETEC design slotted grating SW 9 mm, in the colour Fern, locked, 1,0 m



Type 020 with FIBRETEC design slotted grating SW 9 mm, in the colour Stone, locked, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 1,0 m	1000	160	150	92	372	4,60	47417	-
Type 0105 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 0,5 m	500	160	150	92	372	2,12	47427	-
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 1,0 m	1000	160	200	142	372	4,86	47418	-
Type 01005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 0,5 m	500	160	200	142	372	2,44	47428	-
Type 020 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 1,0 m	1000	160	250	192	372	5,76	47419	-
Type 02005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 0,5 m	500	160	250	192	372	2,88	47429	-
Type 75 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 1,0 m*	1000	160	75	35	372	3,45	47415	-
Type 95 with FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, locked, 1,0 m	1000	160	95	55	372	3,68	47416	-
Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone,locked, 1,0 m	1000	160	150	92	372	4,35	47411	-
Type 0105 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 0,5 m	500	160	150	92	372	2,12	47424	-
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 1,0 m	1000	160	200	142	372	4,89	47412	-
Type 01005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 0,5 m	500	160	200	142	372	2,44	47425	-
Type 020 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 1,0 m	1000	160	250	192	372	5,76	47413	-
Type 02005 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 0,5 m	500	160	250	192	372	2,88	47426	-
Type 75 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 1,0 m*	1000	160	75	35	372	3,45	47409	-
Type 95 with FIBRETEC design slotted grating, SW 9 mm, in the colour Stone, locked, 1,0 m	1000	160	95	55	372	3,68	47410	-

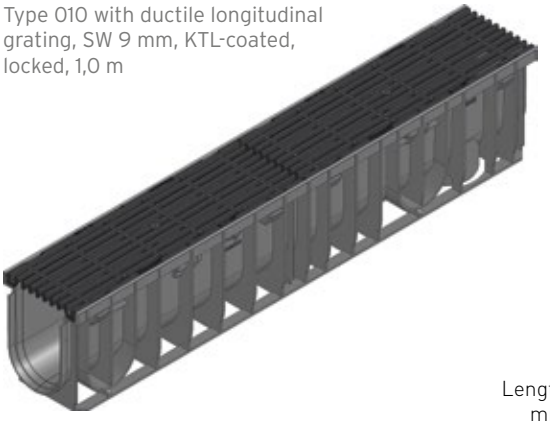
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**

RECYFIX®PRO 100

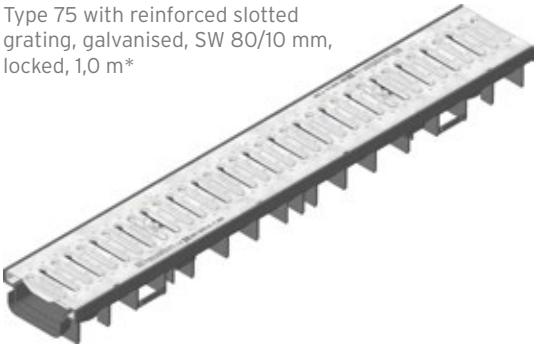
Combi article

RECYFIX®PRO 100, class C 250

Type 010 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 1,0 m



Type 75 with reinforced slotted grating, galvanised, SW 80/10 mm, locked, 1,0 m*



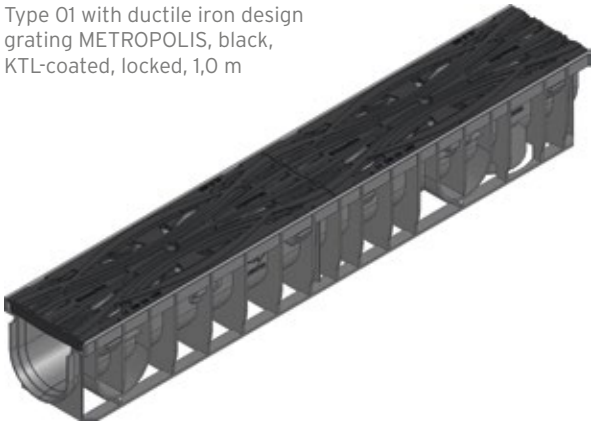
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	150	92	528	9,55	48634	-
Type 0105 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 0,5 m	500	160	150	92	528	4,72	48635	-
Type 010 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	200	142	528	10,06	48645	-
Type 01005 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 0,5 m	500	160	200	142	528	5,55	48646	-
Type 020 with longitudinal ductile iron grating, SW 9 mm, KTL-coated,locked, 1,0 m	1000	160	250	192	528	11,38	48626	-
Type 02005 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 0,5 m	500	160	250	192	528	5,69	48676	-
Type 75 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 1,0 m*	1000	160	75	35	528	8,53	47038	-
Type 95 with ductile longitudinal grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	95	55	528	8,96	47039	-
Type 01 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	150	92	528	9,56	48636	-
Type 0105 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 0,5 m	500	160	150	92	528	5,22	48637	-
Type 010 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	200	142	528	10,07	48647	-
Type 01005 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 0,5 m	500	160	200	142	528	5,04	48648	-
Type 75 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m*	1000	160	75	35	528	8,53	47068	-
Type 95 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	95	55	528	8,92	47069	-
Type 01 with reinforced slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	150	92	281	7,30	47074	47084
Type 0105 with reinforced slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	150	92	281	3,67	47075	47085
Type 010 with reinforced slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	200	142	281	7,59	47076	47086
Type 01005 with reinforced slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	200	142	281	3,99	47077	47087
Type 020 with reinforced slotted grating, SW 80/10 mm, locked, 1,0 m	1000	160	250	192	281	9,00	48627	48628
Type 02005 with reinforced slotted grating, SW 80/10 mm, locked, 0,5 m	500	160	250	192	281	4,50	48677	48678
Type 75 with reinforced slotted grating, galvanised, SW 80/10 mm, locked, 1,0 m*	1000	160	75	35	281	6,46	47014	47016
Type 95 with reinforced slotted grating, galvanised, SW 80/10 mm, locked, 1,0 m	1000	160	95	55	281	6,87	47015	47017

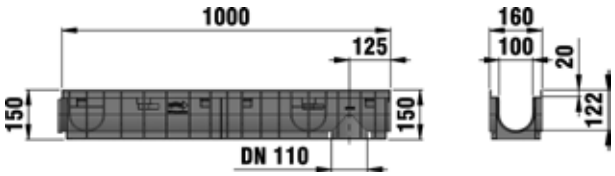
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PRO 100

RECYFIX®PRO 100, class D 400

Type 01 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m



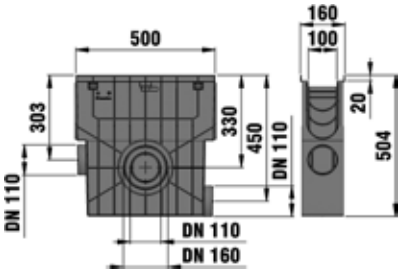


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	160	150	92	165	12,48	47002
Type 0105 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	160	150	92	165	6,24	47003
Type 010 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	160	200	142	165	12,92	47057
Type 01005 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	160	200	142	165	6,50	47058
Type 020 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	160	250	192	165	13,90	48618
Type 02005 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	160	250	192	165	6,93	48619
Type 75 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	160	75	35	165	11,40	47008
Type 95 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	160	95	55	165	11,81	47009
Type 01 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	150	92	528	10,43	48630
Type 0105 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 0,5 m	500	160	150	92	528	5,21	48631
Type 010 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	200	142	528	11,14	48640
Type 01005 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 0,5 m	500	160	200	142	528	5,54	48641
Type 75 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m*	1000	160	75	35	528	9,52	47064
Type 95 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	160	95	55	528	9,96	47065
Typ 020 with longitudinal ductile iron grating, bar spacing 9 mm, black, KTL-coated, bolted, 1,0 m	1000	160	250	192	528	11,96	48638
Typ 02005 with longitudinal ductile iron grating bar spacing 9 mm, black, KTL-coated, bolted, 0,5 m	500	160	250	192	528	5,98	48639
Type 01 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	150	92	528	10,43	48632
Type 0105 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 0,5 m	500	160	150	92	528	5,22	48633
Type 010 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	200	142	528	11,14	48643
Type 01005 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 0,5 m	500	160	200	142	528	5,54	48644
Type 75 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m*	1000	160	75	35	528	9,52	47066
Type 95 with longitudinal ductile iron grating, SW 9 mm, galvanised, locked, 1,0 m	1000	160	95	55	528	9,96	47067

RECYFIX®PRO 100

Accessories

Trash boxes



Trash box with PE mud bucket and slotted grating, SW 80/10 mm, class A 15, locked, 0,5 m

Trash box with galvanised mud bucket and GUGI-Grating made of PA-GF, MW 15/25 mm, class B 125, black, 0,5 m

Trash box with PE mud bucket and FIBRETEC design slotted grating in the colour Black, SW 9 mm, class C 250, locked, 0,5 m

Trash box with PE mud bucket and FIBRETEC design slotted grating in the colour Sand SW 9 mm, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with PE mud bucket and slotted grating, SW 80/10 mm, class A 15, locked, 0,5 m	500	160	504	5,73	47025	47043
Trash box with galvanised mud bucket and GUGI-Grating made of PA-GF, MW 15/25 mm, class B 125, black, 0,5 m	500	160	504	5,85	47053	-
Trash box with plastic mud bucked and mesh grating MW 30/10 mm, class B 125, locked, 0,5 m	500	160	504	6,40	47052	47059
Trash box with PE mud bucket and FIBRETEC design slotted grating, in the colour Black, SW 9 mm, class C 250, locked, 0,5 m	500	160	504	5,89	47054	-
Trash box with PE mud bucket and FIBRETEC design slotted grating, in the colour Sand, SW 9 mm, class C 250, locked, 0,5 m	500	160	504	5,89	47408	-
Trash box with PE mud bucket and FIBRETEC design slotted grating, SW 9 mm, in the colour Fern, class C 250, locked, 0,5 m	500	160	504	5,89	47420	-
Trash box with PE mud bucket and FIBRETEC design slotted grating, SW 9 mm, in the colour Stone class C 250, locked, 0,5 m	500	160	504	5,89	47414	-
Trash box with PE mud bucket and with ductile longitudinal grating, SW 9 mm, KTL, class C 250, locked, 0,5 m	500	160	504	8,10	48655	-
Trash box with PE mud bucket and longitudinal ductile iron grating, SW 9 mm, galvanised, class C 250, locked, 0,5 m	500	160	504	8,10	48656	-
Trash box with PE mud bucket and slotted grating SW 80/10 mm, class C 250, locked, 0,5 m	500	160	504	7,07	47078	47088
Trash box with PE mud bucket and ductile design iron grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	160	504	9,53	48657	-
Trash box with PE mud bucket and longitudinal ductile iron grating, SW 9 mm, galvanised, class D 400, locked, 0,5 m	500	160	504	8,10	48654	-
Trash box with PE mud bucket and longitudinal ductile iron grating, SW 9 mm, KTL, class D 400, locked, 0,5 m	500	160	504	8,57	48653	-

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

RECYFIX®PRO 100

End caps

End cap closed
for type 01

End cap made of PP
with outlet DN/OD 110, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type 01	-	160	124	0,04	48681
End cap made of PP with outlet DN/OD 110, type 01	-	160	201	0,08	48691
End cap closed for type 010	-	160	176	0,05	47082
End cap made of PP with outlet DN/OD 110, type 010	-	160	201	0,11	47093
End cap made of PP, type 020	-	160	250	0,12	48683
End cap made of PP with outlet DN/OD 110, type 020	-	160	250	0,12	48695
End cap for type 75	-	160	61	0,03	47097
End cap for type 95	-	160	81	0,04	47098

Further accessories

Foul air trap for RECYFIX
trash box 100

Foul air trap, vertical,
DN/OD 110

Foul air trap set, vertical
DN/OD 110 for RECYFIX 100

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap for RECYFIX trash box 100	75	78	135	0,08	967
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Step Fall Adapter for step slope, from type 01 to type 010, from type 010 to type 020	189	108	88	0,21	48790
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

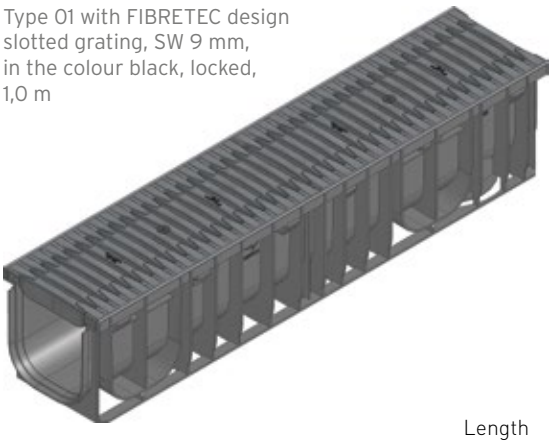
****Amount needed for Type 020: approx. 22 ml per joint**

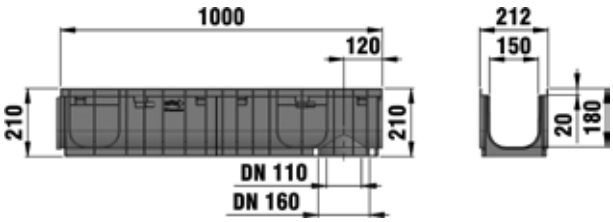
RECYFIX®PRO 150

Combi article

RECYFIX®PRO 150, class B 125

Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m





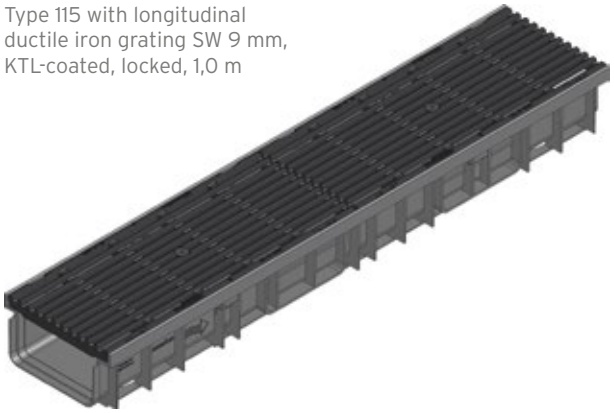
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	212	210	230	500	7,40	47135	-
Type 0105 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 0,5 m	500	212	210	230	500	3,70	47136	-
Type 115 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	212	115	116	500	6,12	47133	-
Type 01 with mesh grating, MW 30/10 mm, locked, 1,0 m	1000	212	210	230	1490	8,60	47140	47141
Type 0105 with mesh grating, MW 30/10 mm, locked, 0,5 m	500	212	210	230	1468	4,36	47147	47148

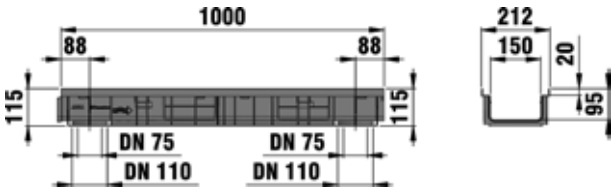
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PRO 150

RECYFIX®PRO 150, class C 250

Type 115 with longitudinal ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m



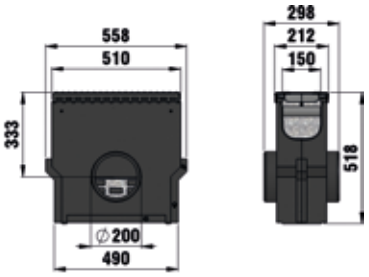


		Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
	Type 01 with longitudinal ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m	1000	212	210	230	740	17,20	47131
	Type 0105 with longitudinal ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m	500	212	210	230	740	8,63	47137
	Type 115 with longitudinal ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m	1000	212	115	116	740	15,88	47134
NEW	Type 01 with FIBRETEC design slotted grating SW 9 mm, in the colour black, locked, 1,0 m	1000	212	210	230	500	7,38	47111
NEW	Type 0105 with FIBRETEC design slotted grating SW 9 mm, in the colour black, locked, 0,5 m	500	212	210	230	500	3,69	47112
NEW	Type 115 with FIBRETEC design slotted grating SW 9 mm, in the colour black, locked, 1,0 m	1000	212	115	116	500	6,16	47110

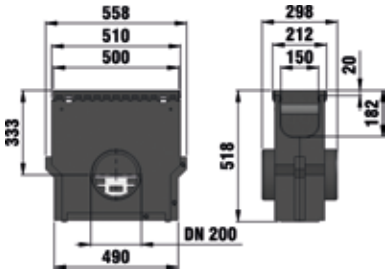
RECYFIX®PRO 150

Accessories

Trash boxes



Trash box with galvanised mud bucket and FIBRETEC design slotted grating, black, SW 9 mm, class B 125, locked, 0,5 m



Trash box with galvanised mud bucket and longitudinal ductile iron grating SW 9 mm, KTL, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised mud bucket and FIBRETEC design slotted grating, black, SW 9 mm, class B 125, locked, 0,5 m	500	212	518	18,70	47153	-
Trash box with galvanised mud bucket, mesh grating MW 30/10 mm, class B 125, locked, 0,5 m	500	212	518	19,37	47155	47156
Trash box with galvanised mud bucket and longitudinal ductile iron grating SW 9 mm, KTL, class C 250, locked, 0,5 m	500	212	518	23,62	47154	-
Trash box with galvanised mud bucket and FIBRETEC design slotted grating SW 9 mm, in the colour black, class C 250, locked, 0,5 m	500	212	518	18,72	47152	-

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

RECYFIX®PRO 150

End caps

End cap combined, PP with outlet DN/OD 75/110 for type 01

End cap closed, type 115

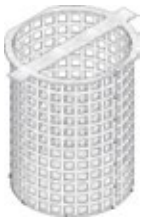
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined, PP with outlet DN/OD 75/110 for type 01	-	210	218	0,14	40591
End cap closed, type 115	-	208	100	0,04	47197

Further accessories

Foul air trap, vertical, DN/OD 110

Foul air trap set, vertical DN/OD 110 for RECYFIX 100

Mud bucket vertical made of modified composite for outlet DN/OD 110, black



Mud bucket for outlet DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Mud bucket vertical made of modified composite for outlet DN/OD 160, black	-	-	-	0,13	845
Mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

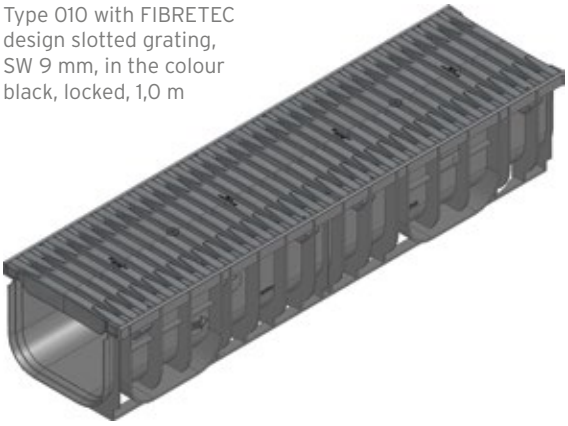
****Amount needed for Type 01: approx. 17 ml per joint**

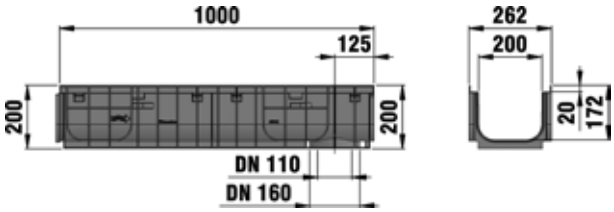
RECYFIX®PRO 200

Combi article

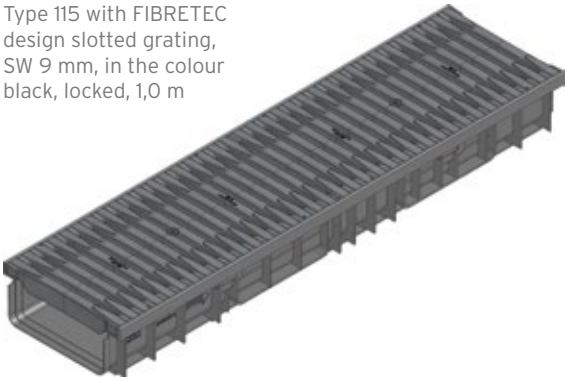
RECYFIX®PRO 200, class B 125

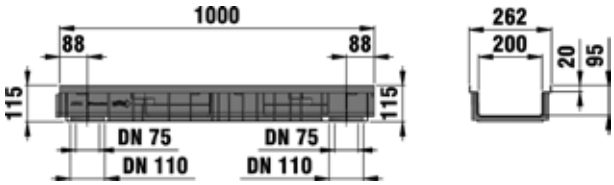
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m





Type 115 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m





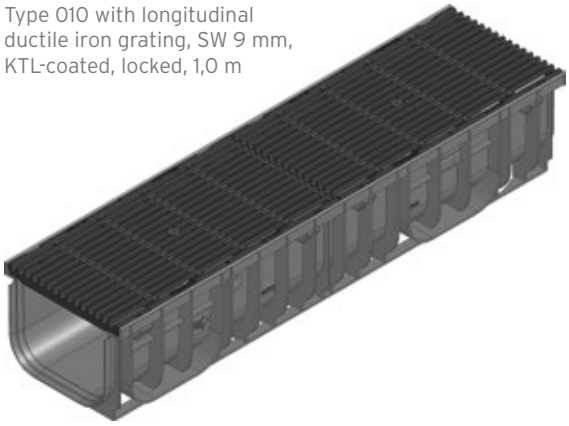
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 010 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	262	200	294	656	8,29	47246	-
Type 115 with FIBRETEC design slotted grating, SW 9 mm, in the colour black, locked, 1,0 m	1000	262	115	150	656	7,03	47233	-
Typ 010 with mesh grating, MW 30/10 mm, locked, 0,5 m	1000	262	200	294	1912	11,00	47248	47249
Type 01005 with mesh grating MW 30/10 mm, locked, 0,5 m	500	262	200	294	1912	5,14	47243	47244

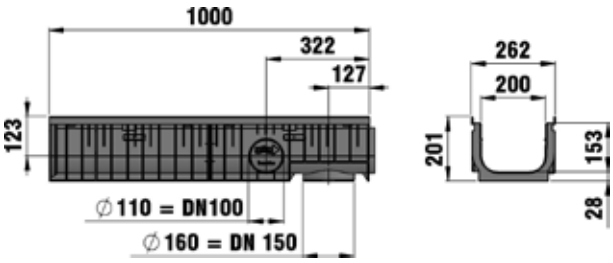
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PRO 200

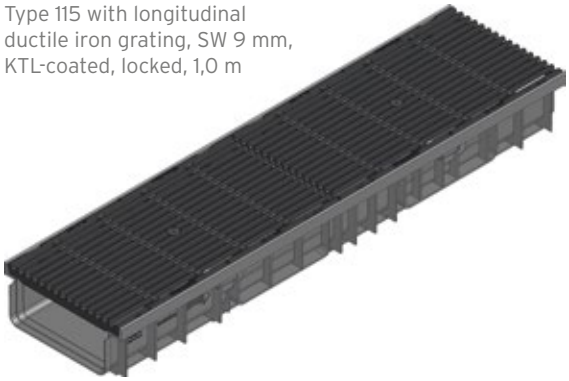
RECYFIX®PRO 200, class C 250

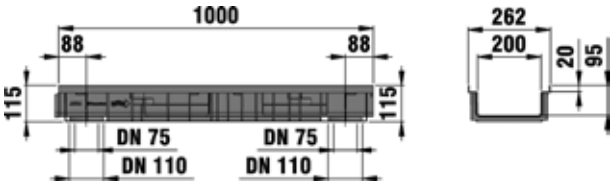
Type 010 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m





Type 115 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	262	200	294	951	22,56	47247
Type 115 with longitudinal ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	262	115	150	951	21,63	47234
Type 010 with G-TEC Ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	262	200	294	595	20,60	47240
Type 115 with G-TEC Ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	262	115	150	595	19,30	47231

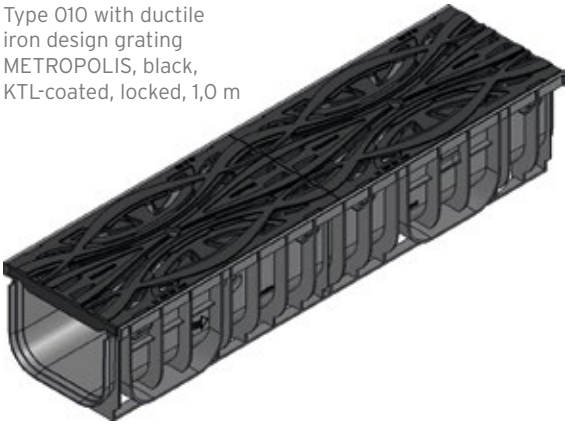
Channels with solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

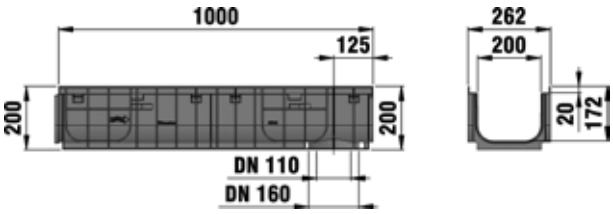
RECYFIX®PRO 200

Combi article

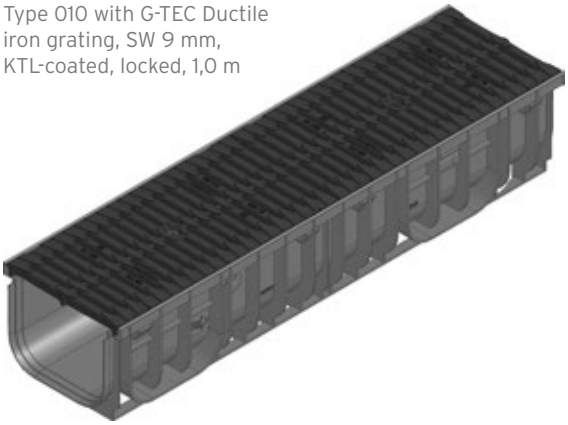
RECYFIX®PRO 200, class D 400

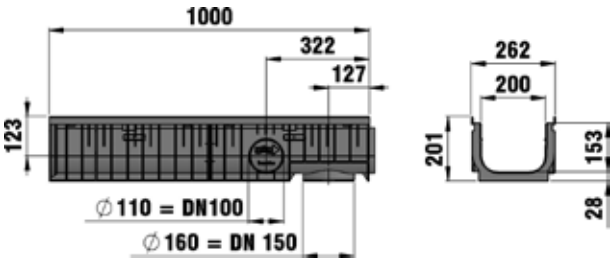
Type 010 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m





Type 010 with G-TEC Ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m



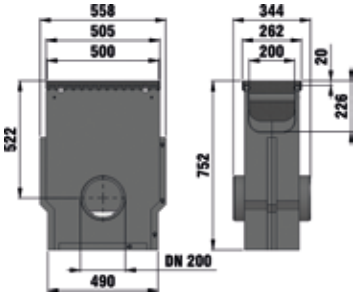


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01005 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	262	200	294	279	12,30	47273
Type 010 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	262	200	294	279	23,80	47272
Type 115 with ductile iron design grating METROPOLIS, black, KTL-coated, locked, 1,0 m	1000	262	115	150	279	23,80	47271
Type 010 with G-TEC Ductile iron grating, SW 9 mm, KTL-coated, locked, 1,0 m	1000	262	200	294	595	20,60	47245
Type 115 with G-TEC Ductile iron grating, SW 9 mm, KTL- coated, locked, 1,0 m	1000	262	115	150	595	19,30	47232

RECYFIX®PRO 200

Accessories

Trash boxes



Trash box with galvanised mud bucket and FIBRETEC design slotted grating, SW 9 mm, black, class B 125, locked, 0,5 m

Trash box with PE mud bucket and ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised mud bucket and FIBRETEC design slotted grating, SW 9 mm, black, class B 125, locked, 0,5 m	500	262	752	28,90	47253	-
Trash box with galvanised mud bucket and mesh grating MW 30/30 mm, class B 125, locked, 0,5 m	500	262	752	30,05	47256	47257
Trash box with galvanised mud bucket and longitudinal ductile iron grating SW 9 mm, KTL-coated, class C 250, locked, 0,5 m	500	262	752	36,20	47254	-
Trash box with galvanised mud bucket and G-TEC Ductile iron grating, SW 9 mm, KTL-coated, class C 250, locked, 0,5 m	500	262	752	35,35	47252	-
Trash box with galvanised mud bucket and G-TEC Ductile iron grating, black, SW 9 mm, class D 400, locked, 0,5 m	500	262	752	35,35	47255	-
Trash box with PE mud bucket and ductile iron design grating METROPOLIS, black, KTL-coated, locked, 0,5 m	500	262	752	37,20	47278	-

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

RECYFIX®PRO 200

Accessories

End caps

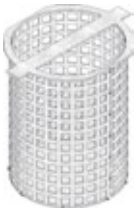
End cap closed,
type 115

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP closed / with outlet DN/OD 110, type 010	-	258	217	0,20	41387
End cap closed, type 115	-	262	100	0,06	47297

RECYFIX®PRO 200

Further accessories

Mud bucket vertical made of modified composite for outlet DN/OD 110, black



Mud bucket for outlet DN/OD 160

Foul air trap, vertical, DN/OD 110

Foul air trap set, vertical DN/OD 110 for RECYFIX 100

	Length mm	Width mm	Height mm	Weight kg	Item No.
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

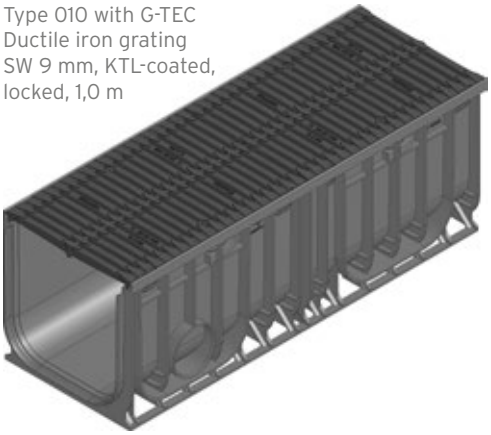
****Amount needed for Type 010: approx. 18 ml per joint**

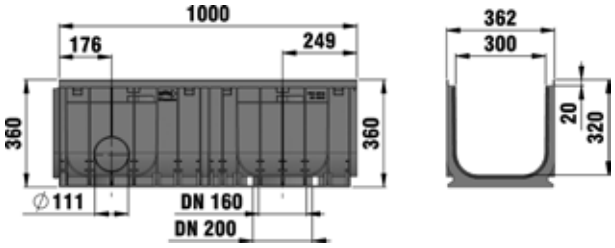
RECYFIX®PRO 300

Combi article

RECYFIX®PRO 300, class C 250

Type 010 with G-TEC
Ductile iron grating
SW 9 mm, KTL-coated,
locked, 1,0 m



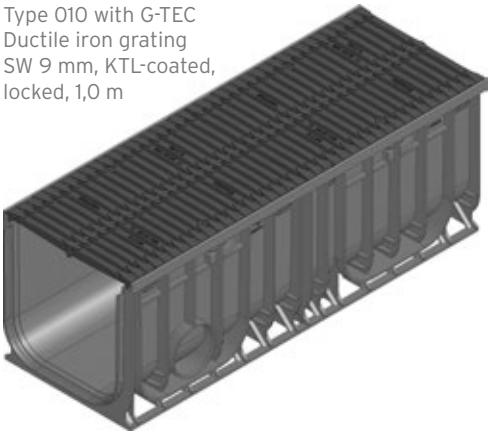


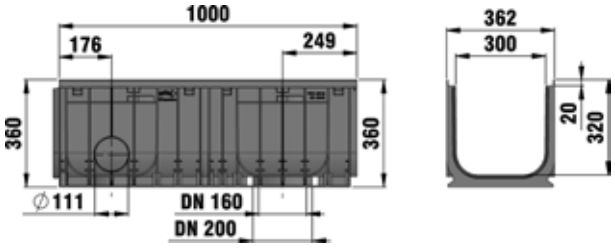
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with G-TEC Ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m	1000	362	360	873	960	38,10	49744

Channels with solid ductile iron covers (closed) can be found in the range SERVICE CHANNELS

RECYFIX®PRO 300, class D 400

Type 010 with G-TEC
Ductile iron grating
SW 9 mm, KTL-coated,
locked, 1,0 m



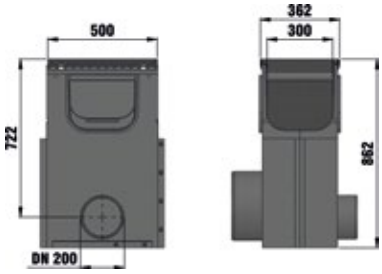


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with G-TEC Ductile iron grating SW 9 mm, KTL-coated, locked, 1,0 m	1000	362	360	873	960	38,10	49745

RECYFIX®PRO 300

Accessories

Trash boxes

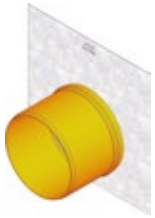


Trash box with galvanised mud bucket
and G-TEC Ductile iron grating, SW 2 x 141/9 mm,
KTL-coated, class C 250, locked,
with PVC-U pipe outlet DN/OD 200, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and G-TEC Ductile iron grating, SW 2 x 141/9 mm, KTL-coated, class C 250, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m	500	362	862	51,96	32329
Trash box with galvanised mud bucket and G-TEC Ductile iron grating, SW 2 x 141/9 mm, KTL-coated, class C 250, locked, with PVC-U pipe outlet DN/OD 315, 0,5 m	500	362	862	51,96	32336

End caps

End cap closed, galvanised,
type 010



End cap with horizontal
PVC-U pipe outlet DN/OD 200,
galvanised, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 010	-	360	360	1,87	49783
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 010	-	360	360	2,55	49791

Further accessories

Mud bucket for outlet
DN/OD 160

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Mud bucket for outlet DN/OD 160	-	-	180	0,82	2191

**Amount needed for Type 010: approx. 32 ml per joint

RECYFIX PLUS

Drainage channels with a sophisticated look for public and commercial areas.

Conference-Centre ICE
Cracow, Poland

RECYFIX PLUS

Drainage channels with a sophisticated look for public and commercial areas.

1 Requirements

Drainage channels in commercial and public areas have to

- permanently withstand the daily stress of cars, trucks and pedestrians
- be optically attractive
- withstand weather influences (frost, heat, humidity)
- be in accordance with DIN EN 1433

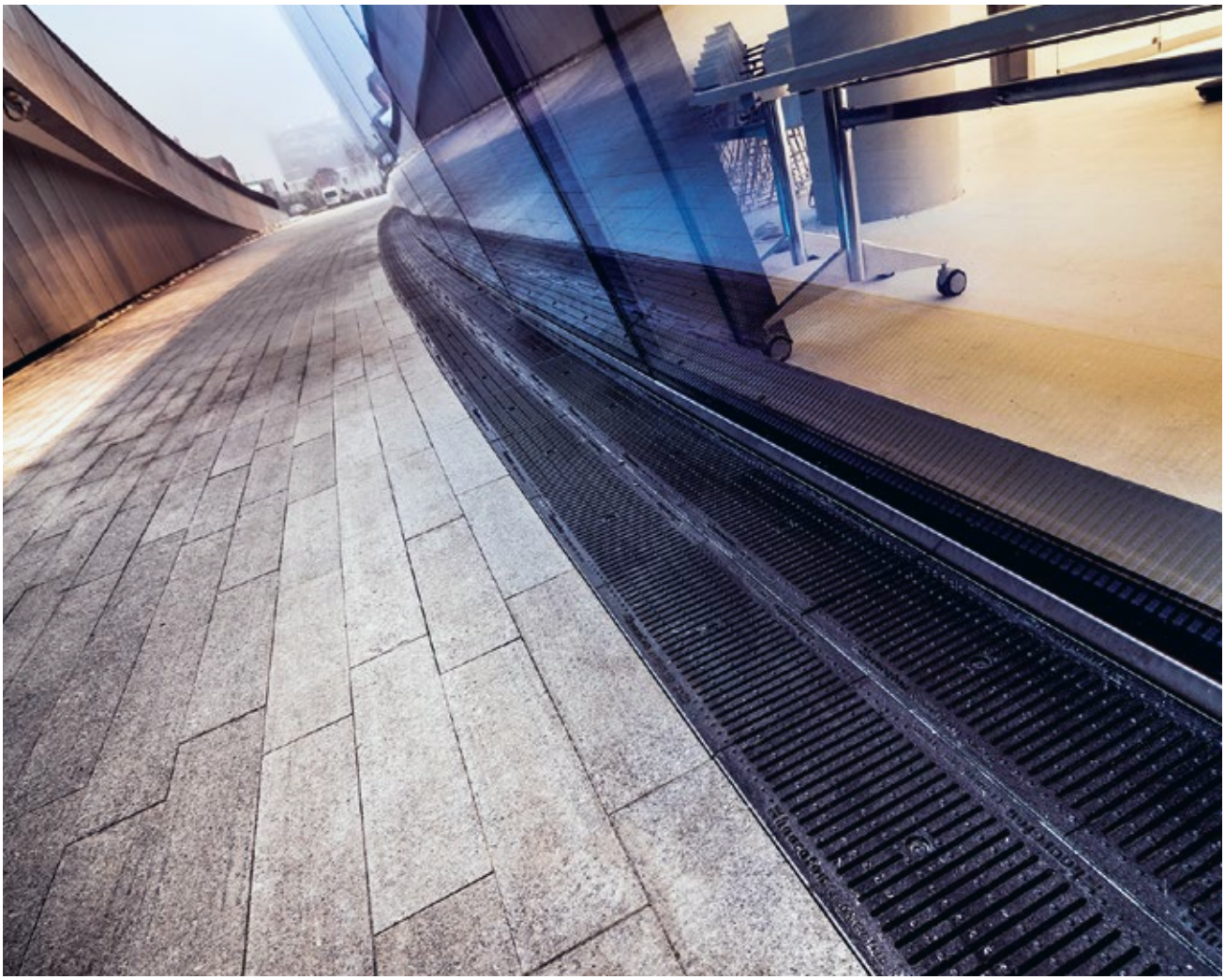
2 Application areas

- public and commercial areas
- trafficked areas with higher loadings

3 Solutions

Therefore RECYFIX PLUS channels are suitable for the drainage of public and commercial areas:

- stable channels made of 100% recycled PE
- torsion-resistant ribs and steel frames for high stability
- corrosion-protected frames made of galvanised or stainless steel
- optical appreciation through visible steel frame



Congress-Centre in Cracow, Poland

ALLEE Shopping Centre in Budapest, Hungary

Scoresby Bunnings Markt in Australia

Mazda Car Dealer in Hobart, Tasmania, Australia

Shopping Centre MOLO in Stettin, Poland

YOUR BENEFITS WITH **RECYFIX** PLUS

FRAME SYSTEM

- integrated galvanised or stainless steel frames
- protection against longitudinal and lateral movements of gratings

= PERFORMANCE ASSURED

PRE-ASSEMBLED READY FOR INSTALLATION

- channel and grating = one part
- no spare parts
- easy handling in stock and on construction site
- cost-efficient transport

= BETTER GROSS MARGIN

HIGH RESISTANCE

- high resistance against frost, de-icing salt and UV rays
- withstands high temperature differences
- for climate ranges from - 50 °C to + 80 °C and more

= QUALITY ASSURED / LONGEVITY

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- much lighter than channels made of polymer/resin concrete
- easy transport and installation

= COST SAVINGS

HIGH-GRADE MATERIAL

- **RECYFIX** - stable and almost unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use
- 100 % recycled composite body (and also 100 % recyclable) → 100% environmentally friendly
- 0 % water absorption
- smooth inner surface for superior flow characteristics
- PP channel body can be cut, drilled and worked easily on site

= QUALITY & PERFORMANCE ASSURED

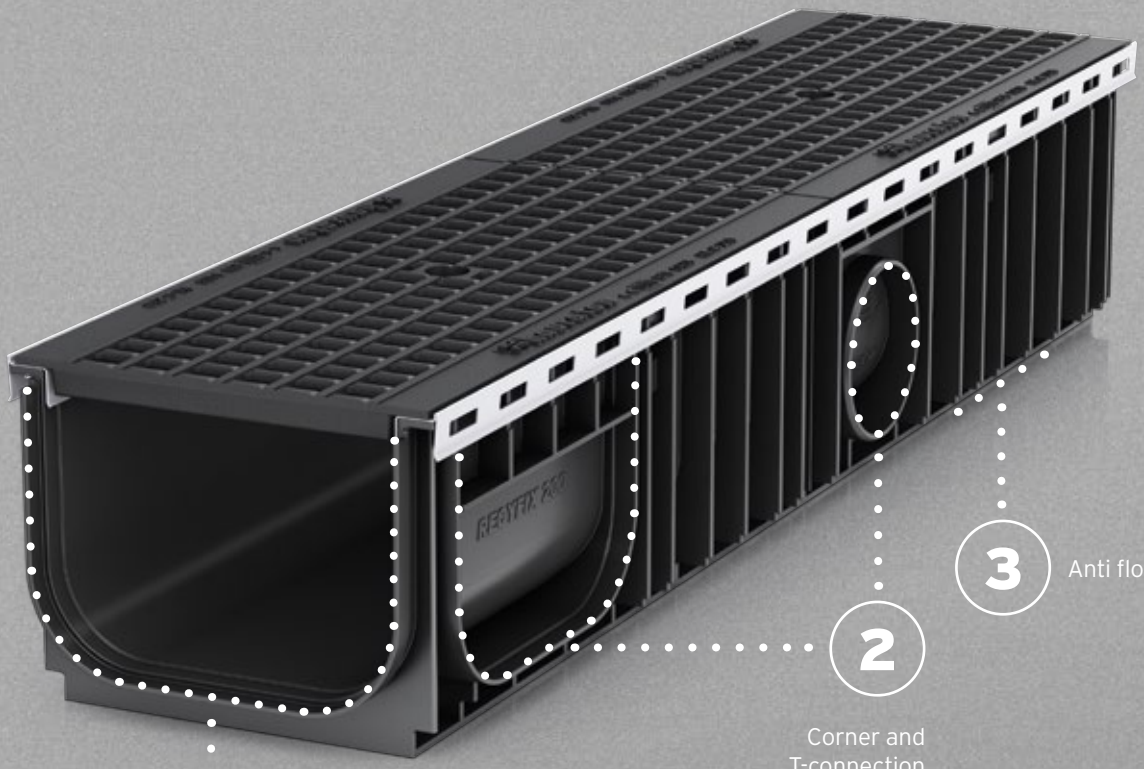
HIGH STABILITY

- proven structural design for superior resistance to dynamic forces and load class C 250
- various ductile iron gratings in loading classes from class A 15 to C 250 according to DIN EN 1433
- stable and durable drainage channel with protective edge

= PERFORMANCE ASSURED

IDEAL FOR ...

applications with higher traffic up to class C 250, such as car parks, industiral estates and sewage plants.



1 Tongue and groove connection & safety joint according to EN 1433

2 Corner and T-connection

3 Anti floating

RECYFIX PLUS

RECYFIX PLUS **channels provide for state-of-the-art drainage at the Vodafone campus in Düsseldorf**

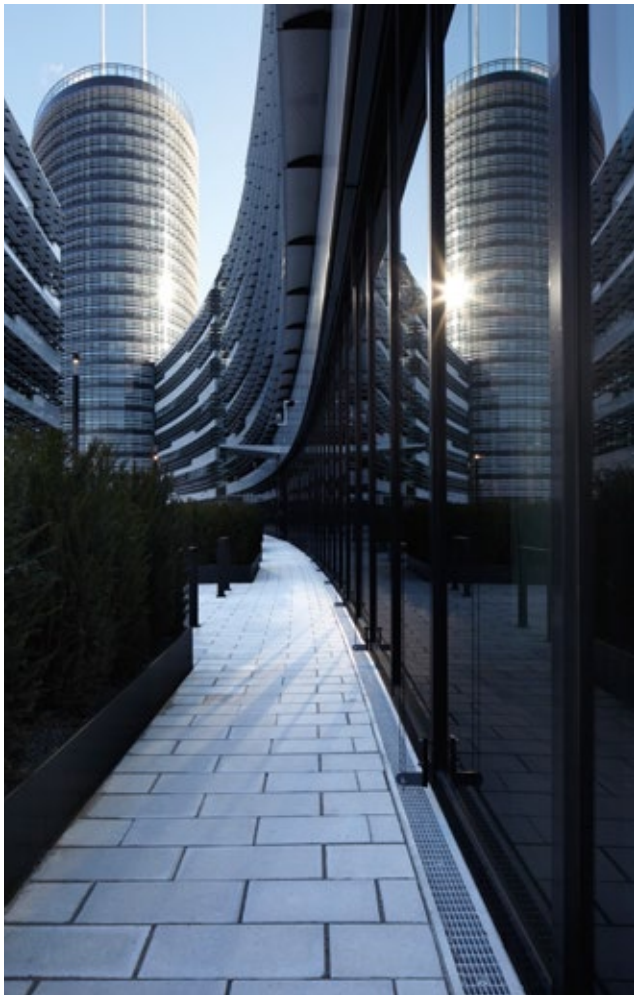
Durable and free of corrosion:

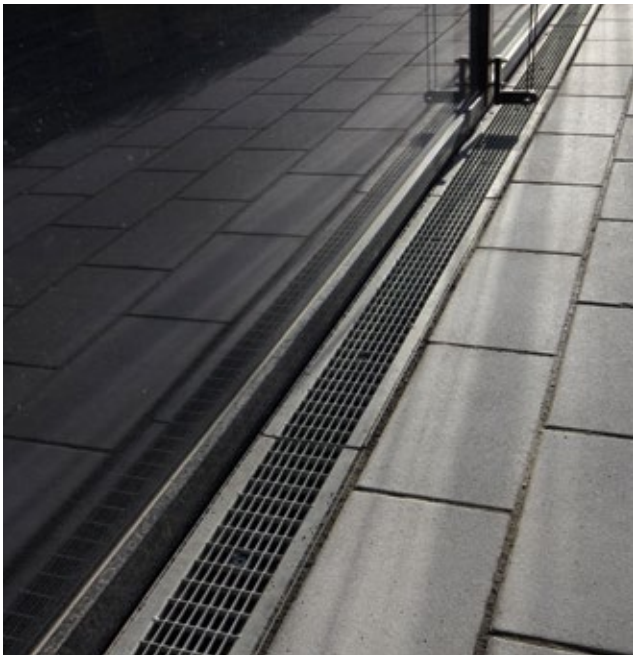
Facade and terrace drainage using RECYFIX PLUS.
The Vodafone campus - a state-of-the-art office complex with workplaces for more than 5000 employees. More than 300 million euros have been invested in bringing different sites together at the new head office. The building was designed and implemented in accordance with the criteria of the seal of quality for sustainable construction LEED Gold (Leadership in Energy and Environmental Design).

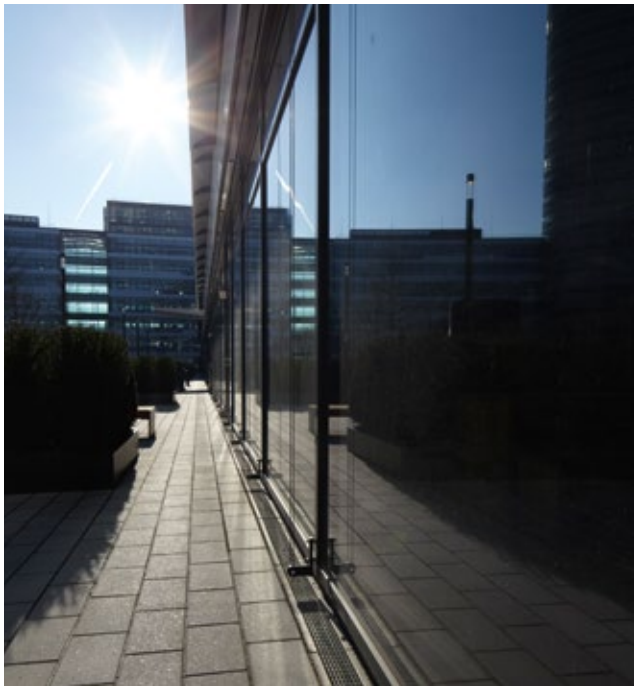
Reasons for using nearly 700 metres of **RECYFIX** PLUS:

- Low construction costs
  - Ease of installation and processing polygonal laying rather than radial tailor-made channel
- Ecological material
  - Recycled PP
  - Extremely detailed specifications with regard to material origin, material composition and manufacturing procedure
- Elegant appearance
  - Continuous metal edge on surface
  - Mesh gratings with no interfering little plates containing manufacturer details and load specifications

Vodafone-Campus in Düsseldorf, Germany







RECYFIX PLUS

Drainage channels with a sophisticated look for public and commercial areas.

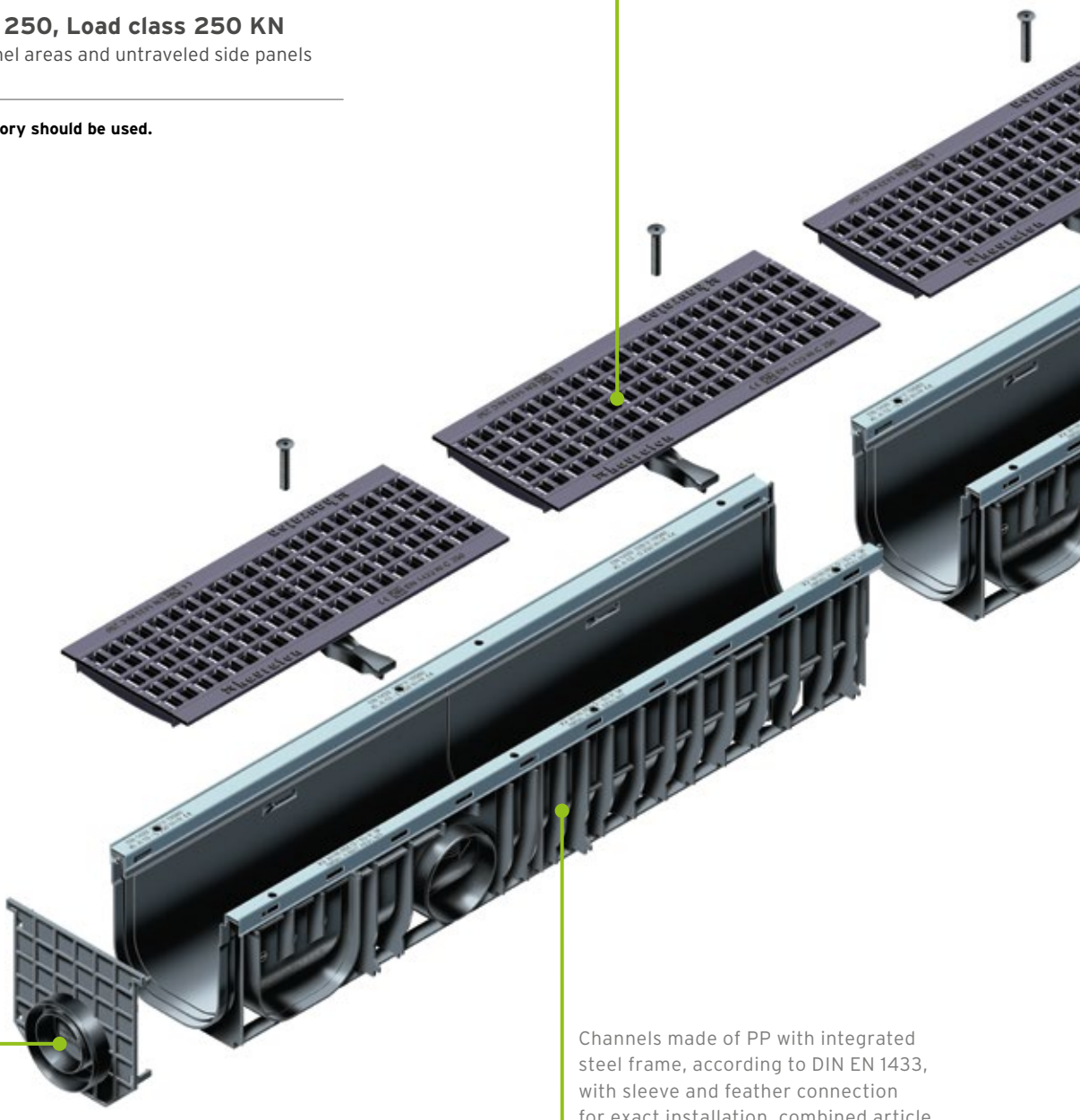
RECYFIX PLUS channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:

Category A 15, Load class 15 KN
Trafficked areas, which are exclusively used by pedestrians and cyclists

Category B 125, Load class 125 kN
Sidewalks, pedestrian areas and comparable areas, car parks or car parking decks

Category C 250, Load class 250 KN
Sidewalk channel areas and untraveled side panels or similar

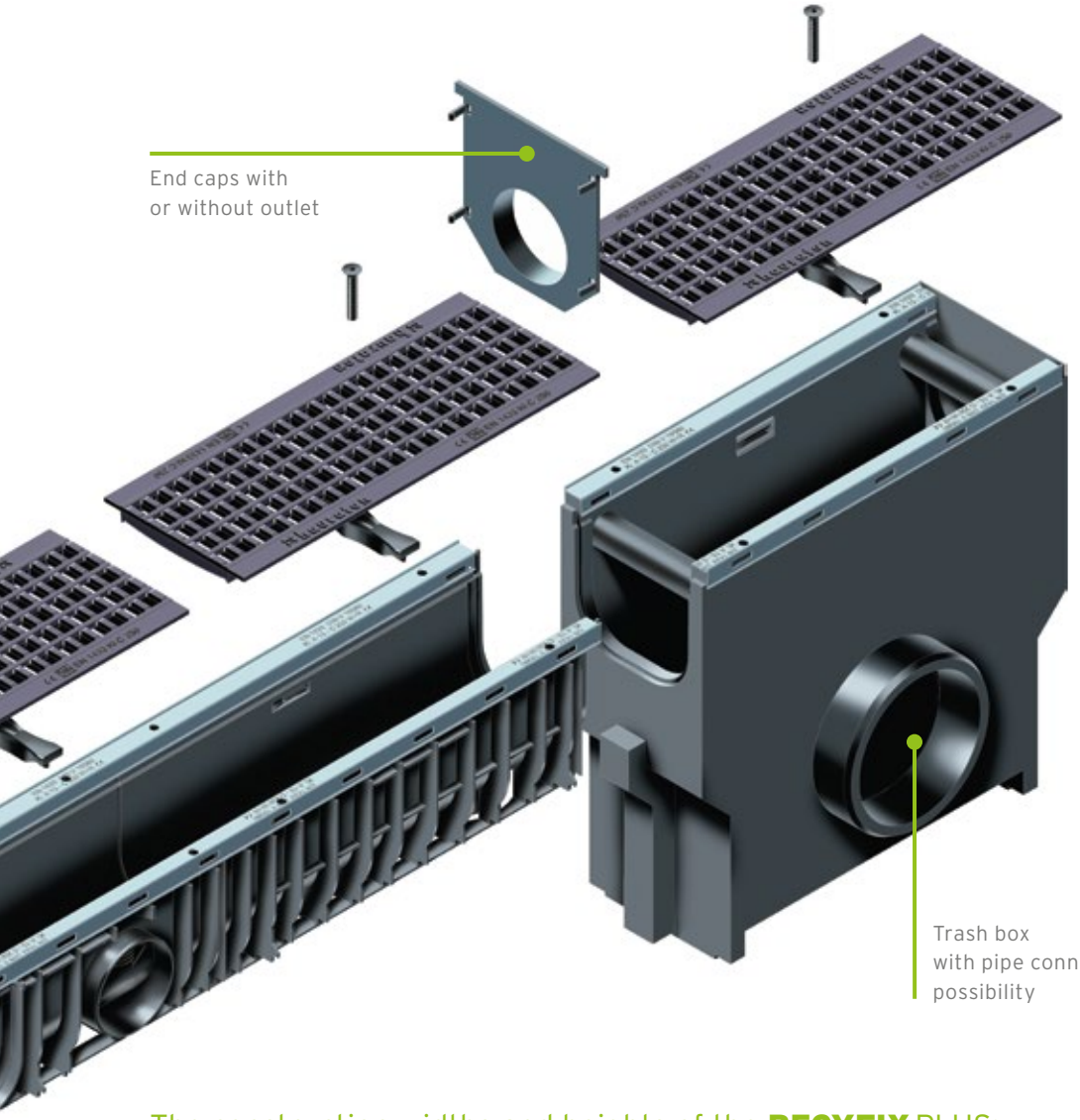
If in doubt, the higher category should be used.



Different grating options, i.e. GUGI-Ductile iron mesh gratings

End caps with or without outlet

Channels made of PP with integrated steel frame, according to DIN EN 1433, with sleeve and feather connection for exact installation, combined article with various grating possibilities



The construction widths and heights of the **RECYFIX** PLUS:

Nominal width	100			150			200			300		
Type 60	147	60	40	-	-	-	-	-	-	-	-	-
Type 80	147	80	60	-	-	-	-	-	-	-	-	-
Type 100	-	-	-	202	100	80	247	100	80	-	-	-
Type 01	147	135	107	202	193	165	-	-	-	347	291	255
Type 010	147	186	157	-	-	-	247	186	157	-	-	-
Type 020	-	-	-	-	-	-	247	236	208	-	-	-

Width/height/inner height (in mm)

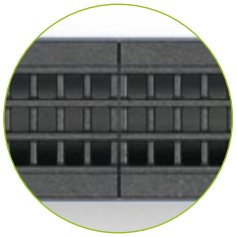
Grating options
RECYFIX PLUS 100

Ductile iron gratings

Slot width: 80 x 14 mm

Ductile iron gratings

Slot width: 80 x 6 mm



GUGI ductile iron mesh gratings

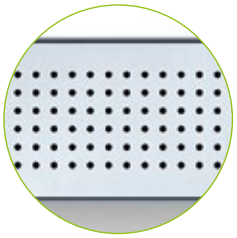
Mesh width: 15 x 25 mm

Mesh gratings, galvanised and stainless steel

Mesh width: 30 x 10 mm

Slotted gratings, galvanised and stainless steel

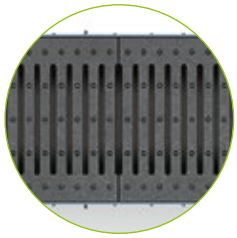
Slot width: 75 x 9 mm



Perforated gratings, stainless steel

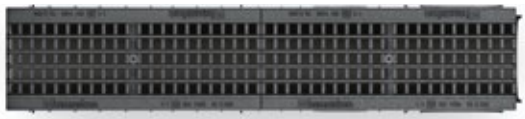
Hole diametre: 6 mm

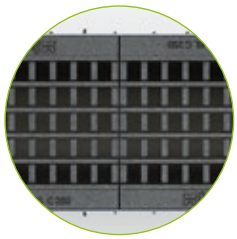
Grating options
RECYFIX PLUS 150



Ductile iron gratings

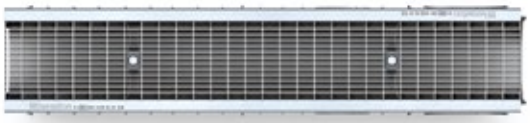
Slot width: 130 x 6 mm

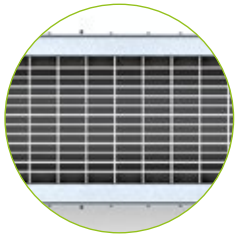




GUGI ductile iron mesh gratings

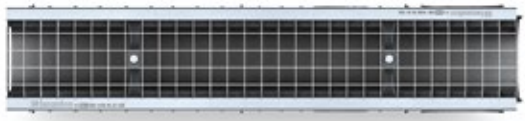
Mesh width: 15 x 25 mm

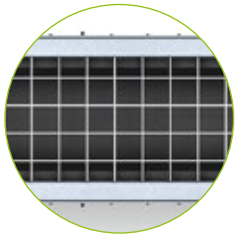




Mesh gratings, galvanised

Mesh width: 30 x 10 mm





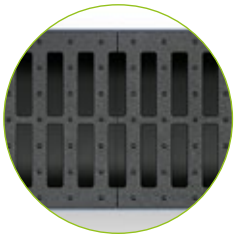
Mesh gratings, galvanised

Mesh width: 30 x **30 mm**

Slotted gratings, galvanised

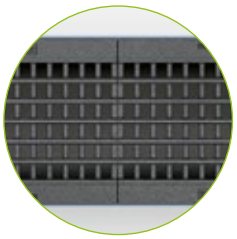
Slot width: 130 x 8 mm

Grating options
RECYFIX PLUS 200



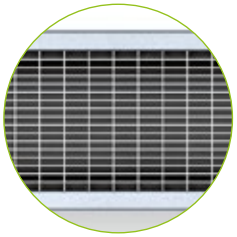
Ductile iron gratings

Slot width: 2 x 80 x 20 mm



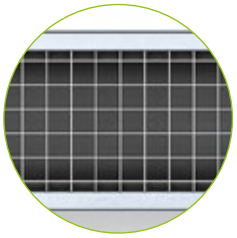
GUGI ductile iron mesh gratings

Mesh width: 15 x 25 mm



Mesh gratings, galvanised

Mesh width: 30 x 10 mm



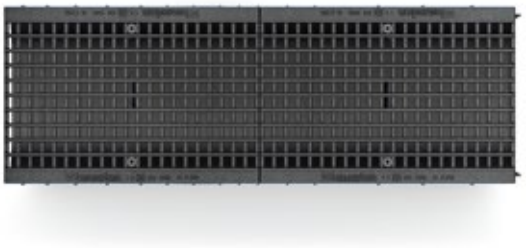
Mesh gratings, galvanised and stainless steel

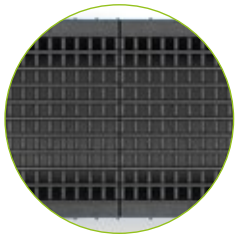
Mesh width: 30 x 30 mm

Slotted gratings, galvanised

Slot width: 130 x 8 mm

Grating options
RECYFIX PLUS 300





GUGI ductile iron gratings

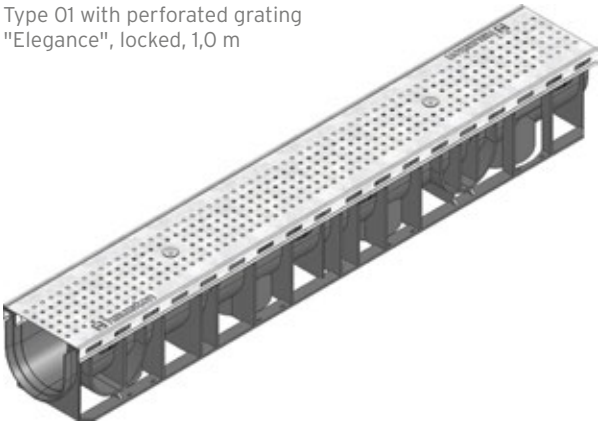
Mesh width: 15 x 25 mm

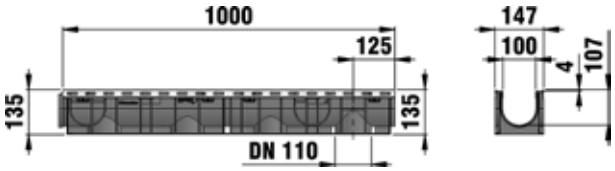
RECYFIX®PLUS 100

Combi article

RECYFIX®PLUS 100, **class A 15**

Type 01 with perforated grating
"Elegance", locked, 1,0 m





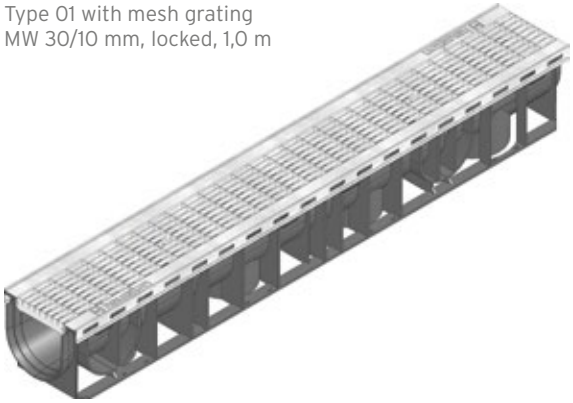
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with perforated grating "Elegance", locked, 1,0 m	1000	147	135	92	102	4,91	41441	41440
Type 0105 with perforated grating "Elegance", locked, 0,5 m	500	147	135	92	102	2,84	41475	41447
Type 010 with perforated grating "Elegance", locked, 1,0 m	1000	147	186	142	102	5,64	41443	41442
Type 01005 with perforated grating "Elegance", locked, 0,5 m	500	147	186	142	102	2,72	41476	41448
Type 60 with perforated grating "Elegance", locked, 1,0 m	1000	147	60	35	102	3,95	41445	41444
Type 80 with perforated grating "Elegance", locked, 1,0 m	1000	147	80	55	102	4,15	41471	41446

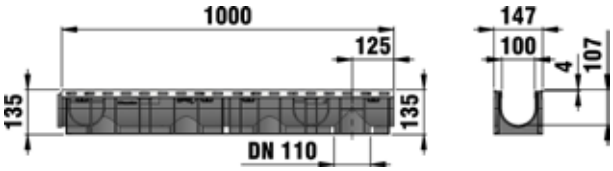
Type 60/type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PLUS 100

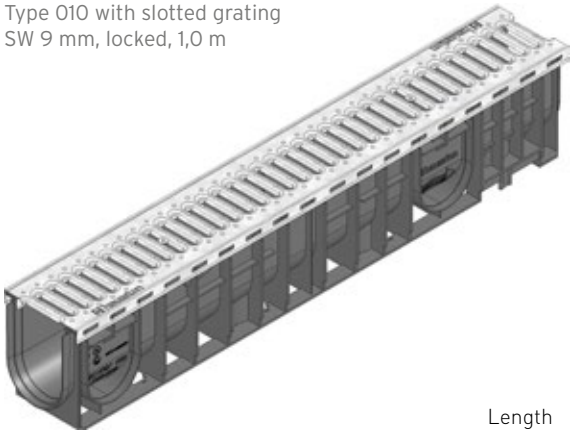
RECYFIX®PLUS 100, **trafficable**

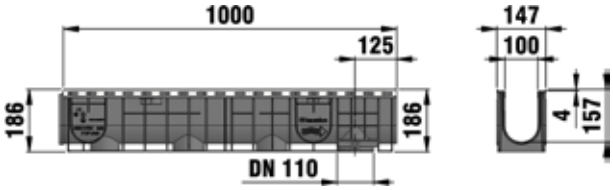
Type 01 with mesh grating
MW 30/10 mm, locked, 1,0 m





Type 010 with slotted grating
SW 9 mm, locked, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	147	135	92	650	6,50	40346	-
Type 0105 with mesh grating MW 30/10 mm, locked, 0,5 m	500	147	135	92	650	3,40	40348	-
Type 010 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	147	186	142	650	6,38	40340	-
Type 01005 with mesh grating MW 30/10 mm, locked, 0,5 m	500	147	186	142	650	3,18	40343	-
Type 60 with mesh grating MW 30/10 mm, locked, 1,0 m*	1000	147	60	35	650	5,20	40333	-
Type 80 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	147	80	55	650	4,88	40338	-
Type 01 with slotted grating SW 9 mm, locked, 1,0 m	1000	147	135	92	280	5,30	40344	41400
Type 0105 with slotted grating SW 9 mm, locked, 0,5 m	500	147	135	92	280	2,73	40347	41407
Type 010 with slotted grating SW 9 mm, locked, 1,0 m	1000	147	186	142	280	5,68	40339	41402
Type 01005 with slotted grating SW 9 mm, locked, 0,5 m	500	147	186	142	280	2,78	40341	41408
Type 60 with slotted grating SW 9 mm, locked, 1,0 m*	1000	147	60	35	280	4,00	40332	41404
Type 80 with slotted grating SW 9 mm, locked, 1,0 m	1000	147	80	55	280	4,10	40337	41406

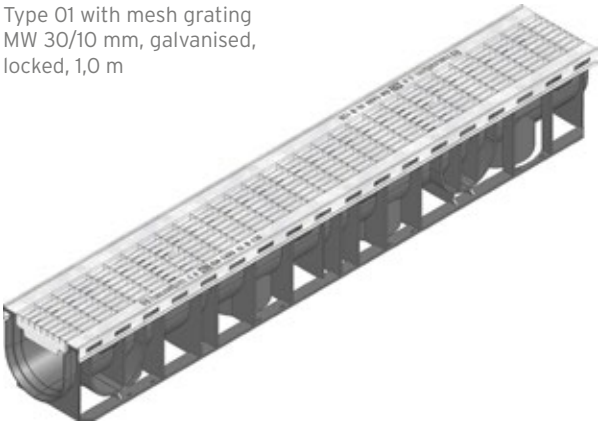
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 60/type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

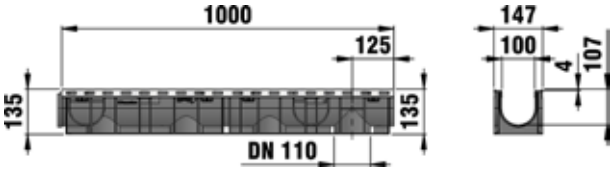
RECYFIX®PLUS 100

Combi article

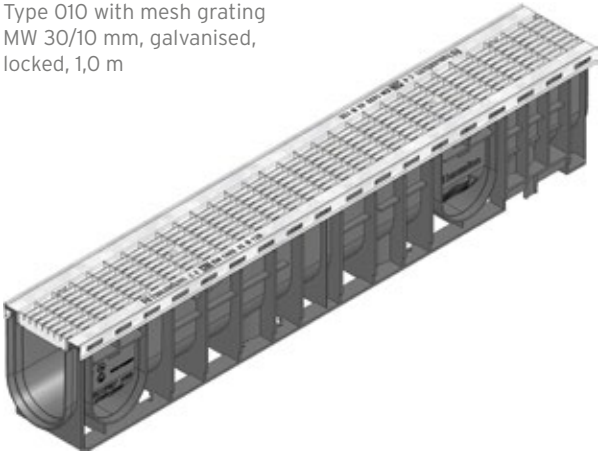
RECYFIX®PLUS 100, class B 125

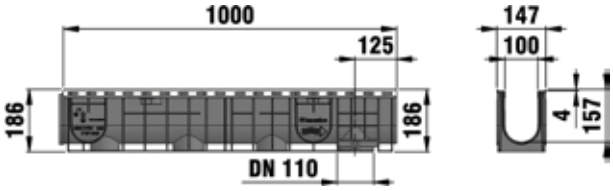
Type 01 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m





Type 010 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m





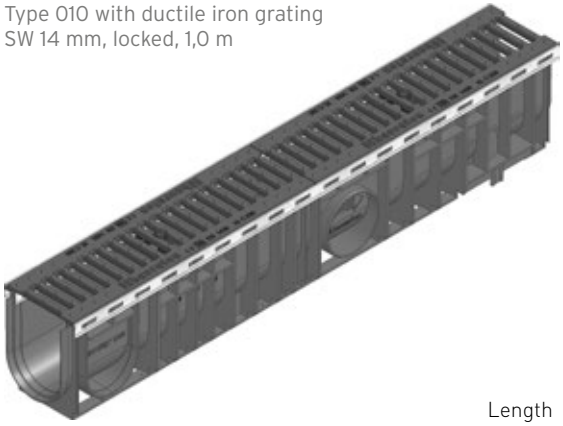
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	147	135	92	650	6,04	41420	41410
Type 0105 with mesh grating MW 30/10 mm, galvanised, locked, 0,5 m	500	147	135	92	650	3,38	41427	41417
Type 010 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	147	186	142	650	6,78	41422	41412
Type 01005 with mesh grating MW 30/10 mm, galvanised, locked, 0,5 m	500	147	186	142	650	4,40	41428	41418
Type 80 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	147	80	55	650	5,27	41426	41416

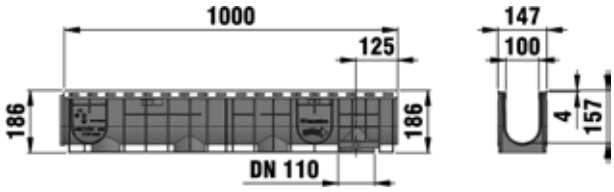
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PLUS 100

RECYFIX®PLUS 100, class C 250

Type 010 with ductile iron grating
SW 14 mm, locked, 1,0 m





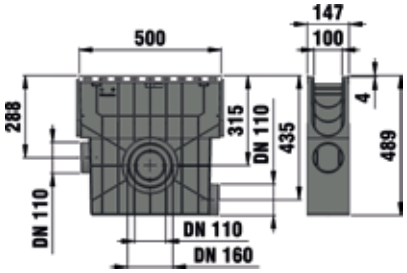
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with ductile iron grating SW 14 mm, locked, 1,0 m	1000	147	135	92	432	9,00	40361	41461
Type 0105 with ductile iron grating SW 14 mm, locked, 0,5 m	500	147	135	92	432	4,97	40366	41466
Type 010 with ductile iron grating SW 14 mm, locked, 1,0 m	1000	147	186	142	432	9,90	40381	41481
Type 0105 with ductile iron grating SW 14 mm, locked, 0,5 m	500	147	186	142	432	4,56	40386	41486
Type 60 with ductile iron grating SW 14 mm, black, locked, 1,0 m*	1000	147	60	35	432	7,85	40362	41462
Type 80 with ductile iron grating SW 14 mm, black, locked, 1,0 m	1000	147	80	55	432	8,37	40367	41467
Type 01 with ductile iron grating SW 6 mm, locked, 1,0 m	1000	147	135	92	254	10,00	40363	41463
Type 0105 with ductile iron grating SW 6 mm, locked, 0,5 m	500	147	135	92	254	4,96	40368	41468
Type 010 with ductile iron grating SW 6 mm, locked, 1,0 m	1000	147	186	142	254	10,03	40383	41483
Type 01005 with ductile iron grating SW 6 mm, locked, 0,5 m	500	147	186	142	254	4,84	40388	41488
Type 60 withductile iron grating SW 6 mm, black, locked, 1,0 m*	1000	147	60	35	254	8,65	40372	41472
Type 80 with ductile iron grating SW 6 mm, black, locked, 1,0 m	1000	147	80	55	254	8,34	40377	41477
Type 01 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	147	135	92	453	8,87	40360	41460
Type 0105 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 0,5 m	500	147	135	92	453	4,84	40365	41465
Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	147	186	142	453	9,50	40380	41480
Type 0105 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 0,5 m	500	147	186	142	453	4,84	40385	41485
Type 60 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m*	1000	147	60	35	453	7,92	40359	41459
Type 80 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	147	80	55	453	8,11	40364	41464

*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 60/type 80 with preformed outlet DN/OD 75.
Items are equipped with galvanised angle housings and ductile iron grating black or stainless steel angle housings and ductile iron grating black. The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PLUS 100

Accessories

Trash boxes



Trash box with plastic bucket, with ductile iron grating SW 14 mm, black, class C 250, locked, 0,5 m

Trash box with plastic bucket, with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with perforated grating Ø 6 mm, class A 15, locked, 0,5 m	500	147	489	5,87	41454	41449
Trash box with plastic bucket, with slotted grating SW 9 mm, trafficable, locked, 0,5 m	500	147	489	5,81	40353	41409
Trash box with plastic backed, with mesh grating, MW 30/10 mm, trafficable, locked, 0,5 m	500	147	489	6,21	40354	-
Trash box with plastic bucket, with mesh grating, MW 30/10 mm, class B 125, locked, 0,5 m	500	147	489	6,41	41429	41419
Trash box with plastic bucket, with ductile iron grating SW 14 mm, black, class C 250, locked, 0,5 m	500	147	489	8,01	40356	41456
Trash box with plastic bucket, with ductile iron grating SW 6 mm, black, class C 250, locked, 0,5 m	500	147	489	7,99	40357	41457
Trash box with plastic bucket, with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m	500	147	489	7,87	40358	41458

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Items are equipped with galvanised angle housings and ductile iron grating black or stainless steel angle housings and ductile iron grating black.

RECYFIX®PLUS 100

End caps

End cap, closed
for type 01

End cap, closed
for type 010

End cap combined
made of PP with outlet
DN/OD 110, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap, closed for type 01	-	150	108	0,03	48081
End cap with outlet DN/OD 110 for type 01	-	148	185	0,08	48091
End cap, closed for type 010	-	150	160	0,04	40282
End cap combined made of PP with outlet DN/OD 110, type 010	-	148	185	0,10	40283
End cap closed, made of PP, for type 60	-	147	44	0,02	40284
End cap closed, made of PP, for type 80	-	147	64	0,03	40291

Accessories

Further accessories

Foul air trap
for RECYFIX trash box 100

Foul air trap, vertical,
DN/OD 110

Foul air trap set, vertical
DN/OD 110 for RECYFIX 100

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap for RECYFIX trash box 100	75	78	135	0,08	967
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Step Fall Adapter for step slope, from type 01 to type 010	174	98	86	0,21	41290
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

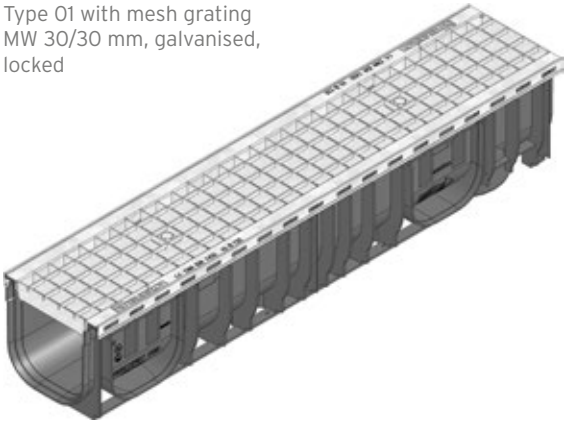
****Amount needed for Type 010: approx. 18 ml per joint**

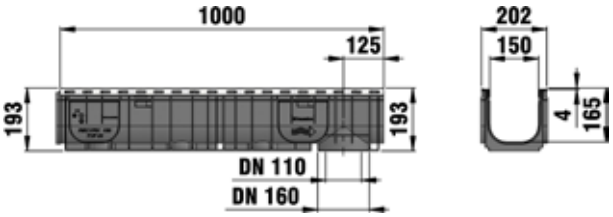
RECYFIX®PLUS 150

Combi article

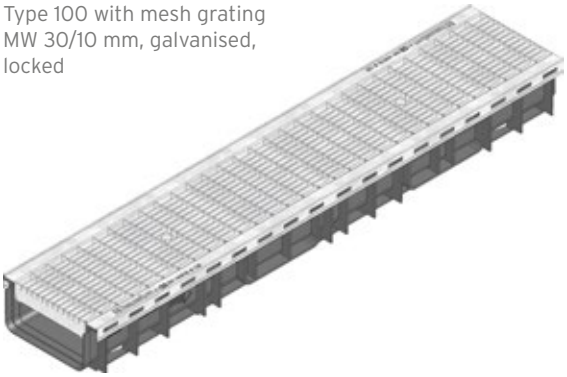
RECYFIX®PLUS 150, class B 125

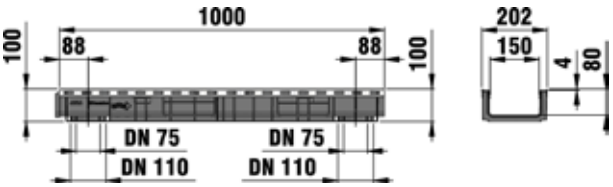
Type 01 with mesh grating MW 30/30 mm, galvanised, locked





Type 100 with mesh grating MW 30/10 mm, galvanised, locked



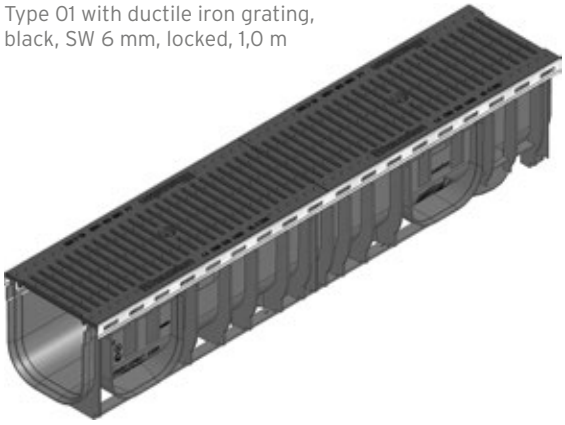


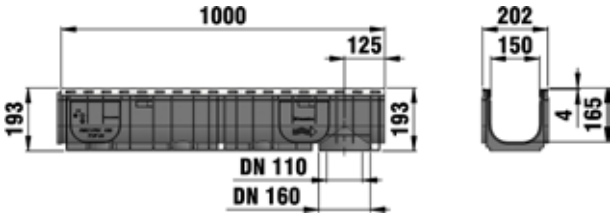
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with mesh grating MW 30/30 mm, galvanised, locked	1000	202	193	225	1081	7,90	41071
Type 0105 with mesh grating MW 30/30 mm, galvanised, locked	500	202	193	225	1081	3,95	41046
Type 100 with mesh grating MW 30/30 mm, galvanised, locked	1000	202	100	117	1081	7,70	41035
Type 01 with mesh grating MW 30/10 mm, galvanised, locked	1000	202	193	225	1098	9,85	41077
Type 0105 with mesh grating MW 30/10 mm, galvanised, locked	500	202	193	225	1098	2,90	41048
Type 100 with mesh grating MW 30/10 mm, galvanised, locked	1000	202	100	117	1098	8,90	41036

RECYFIX®PLUS 150

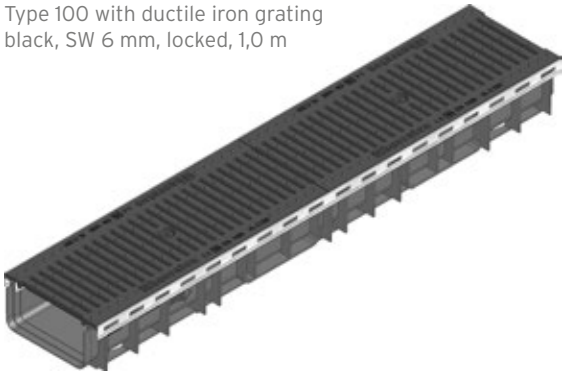
RECYFIX®PLUS 150, class C 250

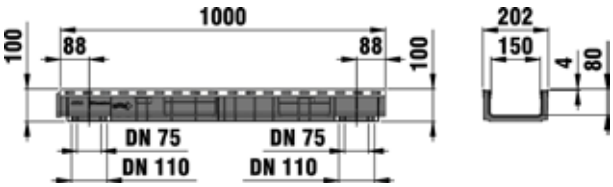
Type 01 with ductile iron grating, black, SW 6 mm, locked, 1,0 m





Type 100 with ductile iron grating black, SW 6 mm, locked, 1,0 m





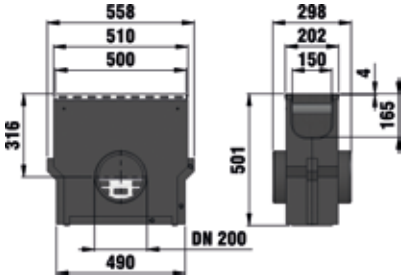
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with ductile iron grating, black, SW 6 mm, locked, 1,0 m	1000	202	193	225	400	14,09	41076	42676
Type 0105 with ductile iron grating black, SW 6 mm, locked, 0,5 m	500	202	193	225	400	8,14	41050	-
Type 100 with ductile iron grating black, SW 6 mm, locked, 1,0 m	1000	202	100	117	400	13,14	41037	-
Type 01 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked	1000	202	193	225	705	13,80	41075	42675
Type 0105 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked	500	202	193	225	705	7,15	41049	-
Type 100 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked	1000	202	100	117	735	12,56	41041	-

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

RECYFIX®PLUS 150

Accessories

Trash boxes



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

Trash box with galvanised bucket, with GUGI-Ductile iron mesh grating MW 15/25 mm, galvanised, class C 250 locked

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised bucket, with mesh grating MW 30/30 mm, galvanised, class B 125, locked	500	202	501	19,10	41054	-
Trash box with galvanised bucket, with mesh grating MW 30/10 mm, galvanised, class B 125, locked	500	202	501	18,60	41056	-
Trash box with galvanised bucket, with ductile iron grating SW 6 mm, black, class C 250, locked, 0,5 m	500	202	501	20,70	41058	42658
Trash box with galvanised bucket, with GUGI-Ductile iron mesh grating MW 15/25 mm, galvanised, class C 250, locked	500	202	501	20,70	41053	42653

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

RECYFIX®PLUS 150

End caps

End cap combined made of PP with outlet DN/OD 75/110, type 01

End cap closed, type 100

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP with outlet DN/OD 75/110, type 01	-	210	203	0,13	40191
End cap closed, type 100	-	208	100	0,04	40190

Further accessories

Geruchverschluss im 90°-Bogen, senkrecht, DN/OD 110

Set für Geruchverschluss senkrecht DN/OD 110

	Length mm	Width mm	Height mm	Weight kg	Item No.
Mud bucket vertical made of modified composite for outlet DN/OD 160, black	-	-	-	0,13	845
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

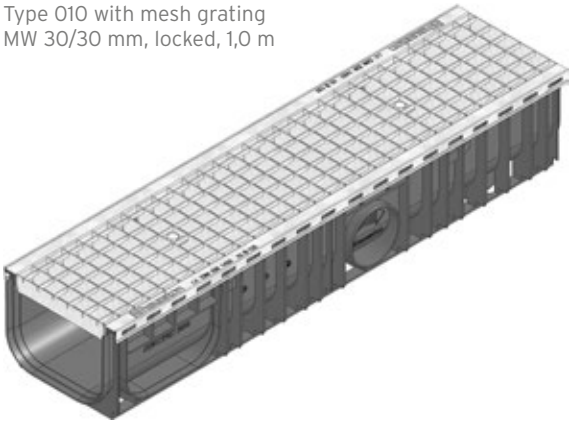
****Amount needed for Type 01: approx. 17 ml per joint**

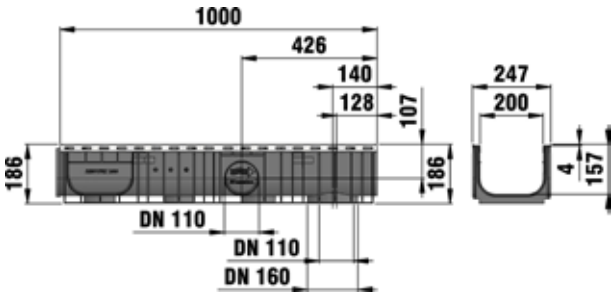
RECYFIX®PLUS 200

Combi article

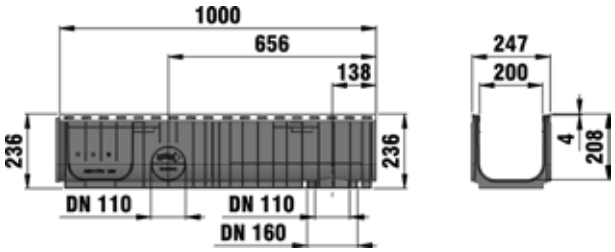
RECYFIX®PLUS 200, class B 125

Type 010 with mesh grating
MW 30/30 mm, locked, 1,0 m





Type 020 with mesh grating
MW 30/10 mm, locked, 1,0 m



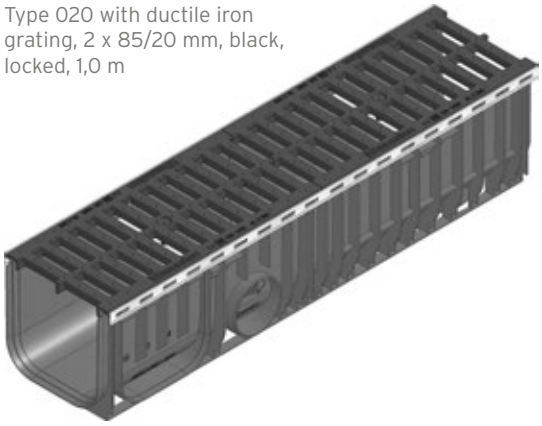
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 010 with mesh grating MW 30/30 mm, locked, 1,0 m	1000	247	186	294	1620	10,57	40771	42771
Type 020 with mesh grating MW 30/30 mm, locked, 1,0 m	1000	247	236	394	1620	11,50	40773	42773
Type 100 with mesh grating MW 30/30 mm, locked, 1,0 m	1000	247	100	147	1620	9,29	40735	42735
Type 010 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	247	186	294	1442	12,20	40785	-
Type 020 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	247	236	394	1442	12,70	40786	-
Type 100 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	247	100	147	1442	11,09	40736	-

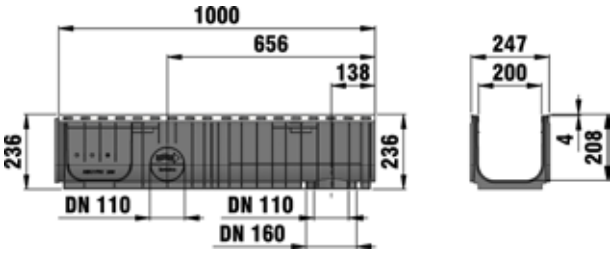
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®PLUS 200

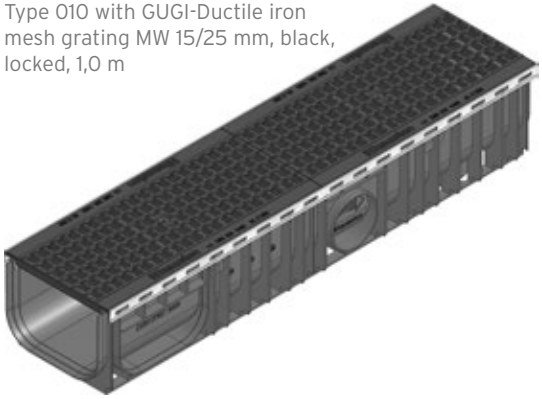
RECYFIX®PLUS 200, **class C 250**

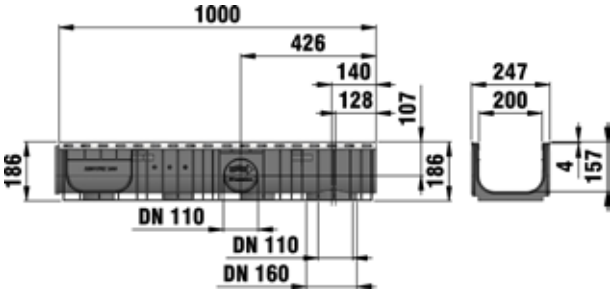
Type 020 with ductile iron grating, 2 x 85/20 mm, black, locked, 1,0 m





Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m





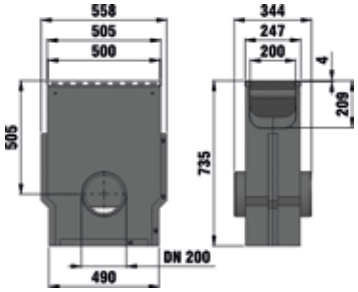
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 010 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m	1000	247	186	294	822	16,20	40760	42760
Type 020 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m	1000	247	236	394	822	16,80	40761	42761
Type 100 with ductile iron grating, SW 20 mm, black, locked, 1,0 m	1000	247	100	147	822	14,89	40740	42740
Type 010 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	247	186	294	557	19,00	40788	42788
Type 020 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	247	236	394	557	19,10	40789	42789
Type 100 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	247	100	147	557	17,56	40787	42787
Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	247	186	294	836	17,88	40770	42770
Type 020 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	247	236	394	836	17,10	40772	42772
Type 100 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	247	100	147	836	15,09	40741	42741

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Items are equipped with galvanised angle housings and ductile iron grating black or stainless steel angle housings and ductile iron grating black.

RECYFIX®PLUS 200

Accessories

Trash boxes



Trash box with mesh grating
MW 30/10 mm, galvanised,
class B 125, locked, 0,5 m

Trash box with GUGI-ductile iron grating
MW 15/25 mm, black, class C 250,
locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with mesh grating MW 30/30 mm, galvanised, class B 125, locked, 0,5 m	500	247	735	27,60	40756	42756
Trash box with mesh grating MW 30/10 mm, galvanised, class B 125, locked, 0,5 m	500	247	735	29,20	40757	-
Trash box with GUGI-ductile iron grating MW 15/25 mm, black, class C 250, locked, 0,5 m	500	247	735	31,40	40753	42753
Trash box with ductile iron grating SW 20 mm, black, class C 250, locked, 0,5 m	500	247	735	31,20	40754	42754
Trash box with galvanised mud bucket and ductile iron grating, SW 6 mm, locked, 0,5 m	500	247	735	32,50	40793	42793

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
Items are equipped with galvanised angle housings and ductile iron grating black or stainless steel angle housings and ductile iron grating black.

RECYFIX®PLUS 200

Further accessories

Foul air trap set, vertical
DN/OD 110 for RECYFIX 100

Step Fall Adapter
for step slope, from type 010
to type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Step Fall Adapter for step slope, from type 010 to type 020	194	208	89	0,39	49590
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

****Amount needed for Type 010: approx. 18 ml per joint**

End caps

End cap combined made
of PP closed / with outlet
DN/OD 110, Type 010

End cap closed,
FASERFIX KS type 01 /
RECYFIX PLUS type 020 /
RECYFIX STANDARD type 020

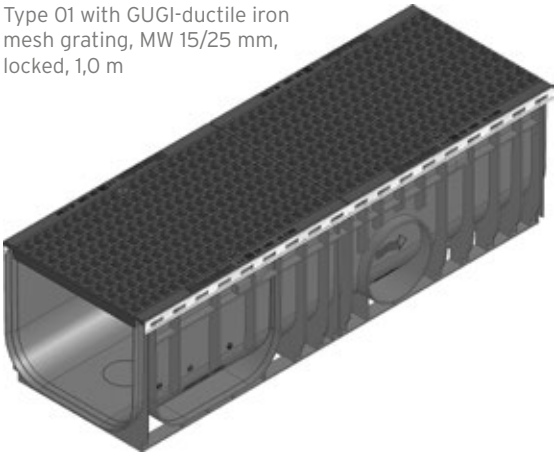
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP closed / with outlet DN/OD 110, Type 010	-	254	199	0,18	40792
End cap closed, FASERFIX KS type 01 / RECYFIX PLUS type 020 / RECYFIX STANDARD type 020	-	260	275	1,28	12081
End cap closed, type 100	-	262	100	0,06	40690

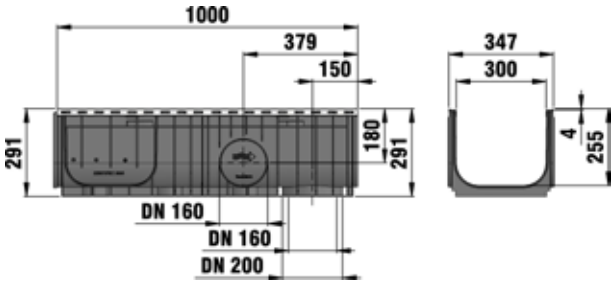
RECYFIX®PLUS 300

Combi article

RECYFIX®PLUS 300, class C 250

Type 01 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m



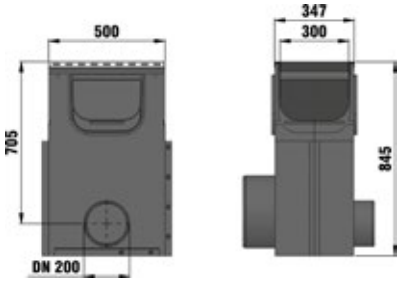


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with GUGI-ductile iron mesh grating, MW 15/25 mm, locked, 1,0 m	1000	347	291	730	1327	31,30	41970

RECYFIX®PLUS 300

Accessories

Trash boxes

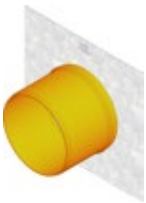


Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, black, class C 250, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, black, class C 250, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m	500	347	845	49,73	32333
Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, black, class C 250, locked, with PVC-U pipe outlet DN/OD 315, 0,5 m	500	347	845	49,73	32340

End caps

End cap closed, galvanised, type 01



End cap with horizontal PVC-U pipe outlet galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	360	340	1,85	40882
End cap with horizontal PVC-U pipe outlet galvanised, type 01	-	360	340	2,30	40892

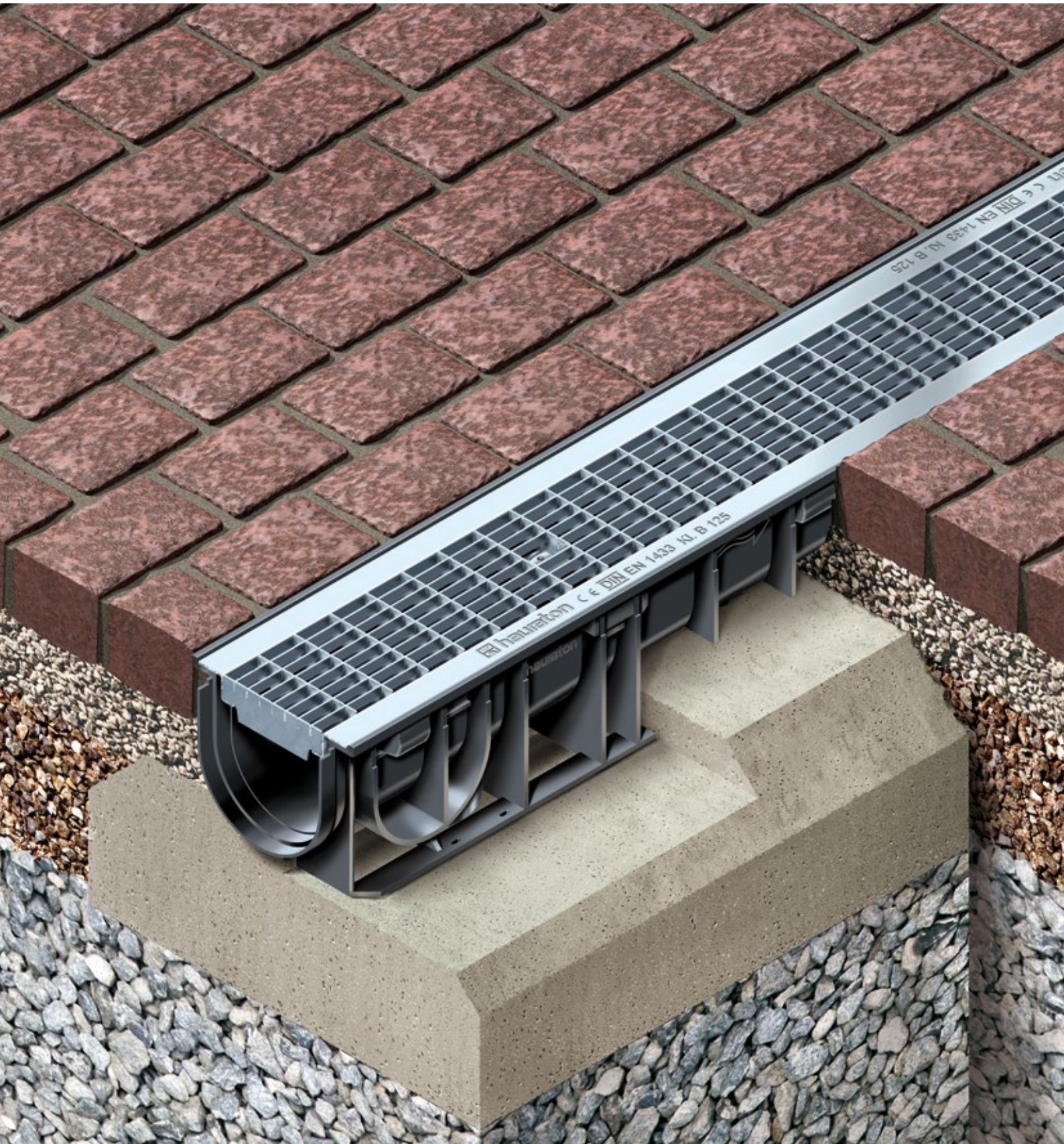
Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

****Amount needed for Type 01: approx. 29 ml per joint**

RECYFIX STANDARD

Drainage channel for domestic applications around the house and garden.



Private estate,
Germany

RECYFIX STANDARD

Drainage channel for domestic applications around the house and garden.

1 Requirements

Drainage channels in private areas have to

- permanently withstand the daily stress of cars and pedestrians
- be easy to transport and install
- withstand weather influences (frost, heat, humidity)
- be optically attractive
- be in accordance with DIN EN 1433

2 Application areas

- predominantly private areas
- driveways
- courtyards
- terraces
- gardens
- parks

3 Solutions

Therefore RECYFIX STANDARD channels are suitable for the drainage of private areas

- high stability and functionality
- low weight
- preformed vertical and horizontal outlets
- nominal sizes from 100 to 300 mm with different heights
- stable gratings in loading classes A 15 up to C 250 according to DIN EN 1433

Public area, Romania

Water fun park

Veszprem Arena in Hungary

Spa Fürthermare in Fürth, Germany

Private house

Street in Hungary

YOUR BENEFITS WITH **RECYFIX** STANDARD

FRAME SYSTEM

- PP frame to stop lateral movements
- enables flush connection with gratings which prevents injuries

= QUALITY & PERFORMANCE ASSURED

HIGH-GRADE MATERIAL

- **RECYFIX** – stable and almost unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use
- 100 % recycled composite body (and also 100 % recyclable) → 100 % environmentally friendly
- 0 % water absorption
- smooth inner surface for superior flow characteristics
- PP channel body can be cut, drilled and worked easily on site

= QUALITY & PERFORMANCE ASSURED

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- much lighter than channels made of polymer/resin concrete
- easy transport and installation

= TIME & COST SAVINGS

NUMEROUS GRATING OPTIONS

- made of ductile iron, galvanised or stainless steel
- narrow slot width for pedestrian areas available
- stable gratings in loading classes A 15 up to C 250 according to DIN EN 1433

= DESIGN FLEXIBILITY

PRE-ASSEMBLED READY FOR INSTALLATION

- channel and grating = one part
- no spare parts
- easy handling in stock and on construction site
- cost-efficient transport

= BETTER GROSS MARGIN

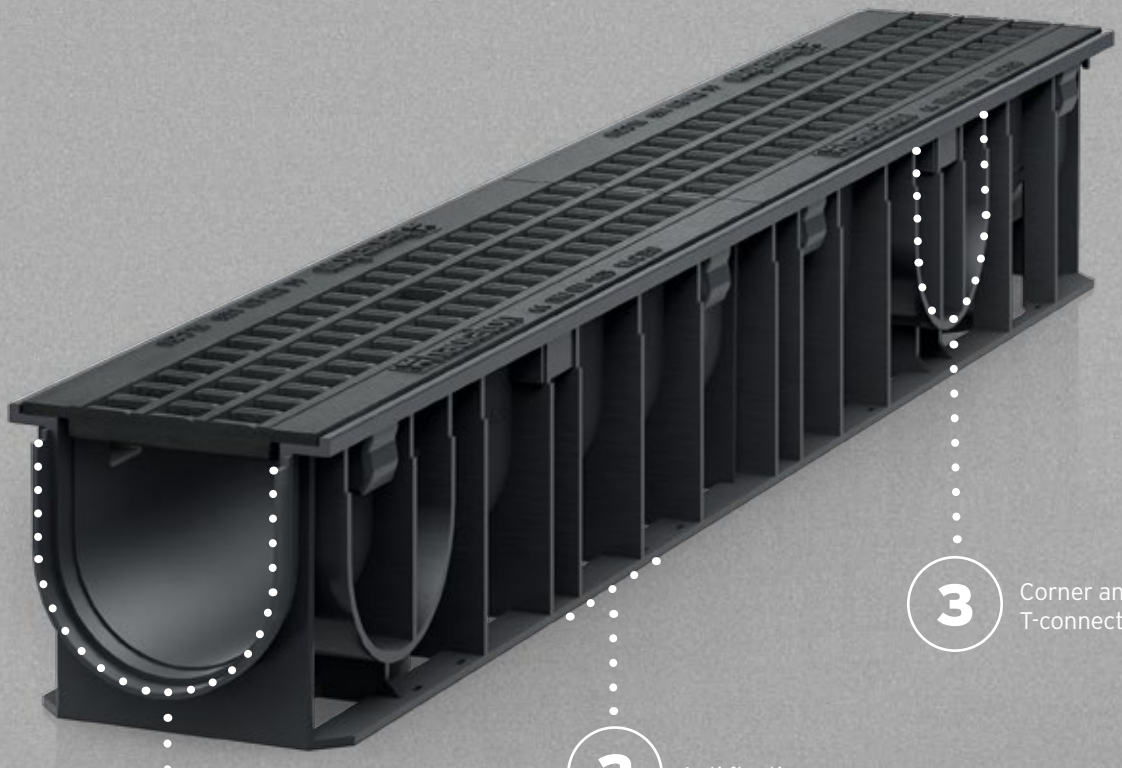
HIGH RESISTANCE

- high resistance against frost, de-icing salt and UV-rays
- withstands high temperature differences
- for climate ranges from - 50 °C to + 80 °C and more

= QUALITY ASSURED / LONGEVITY

IDEAL FOR ...

domestic applications around the house and garden, such as predominantly private areas, driveways, courtyards, gardens and parks.



1 Tongue and groove connection & safety joint according to EN 1433

2 Anti floating

3 Corner and T-connection

The Original

RECYFIX STANDARD

Drainage channel for domestic applications around the house and garden.

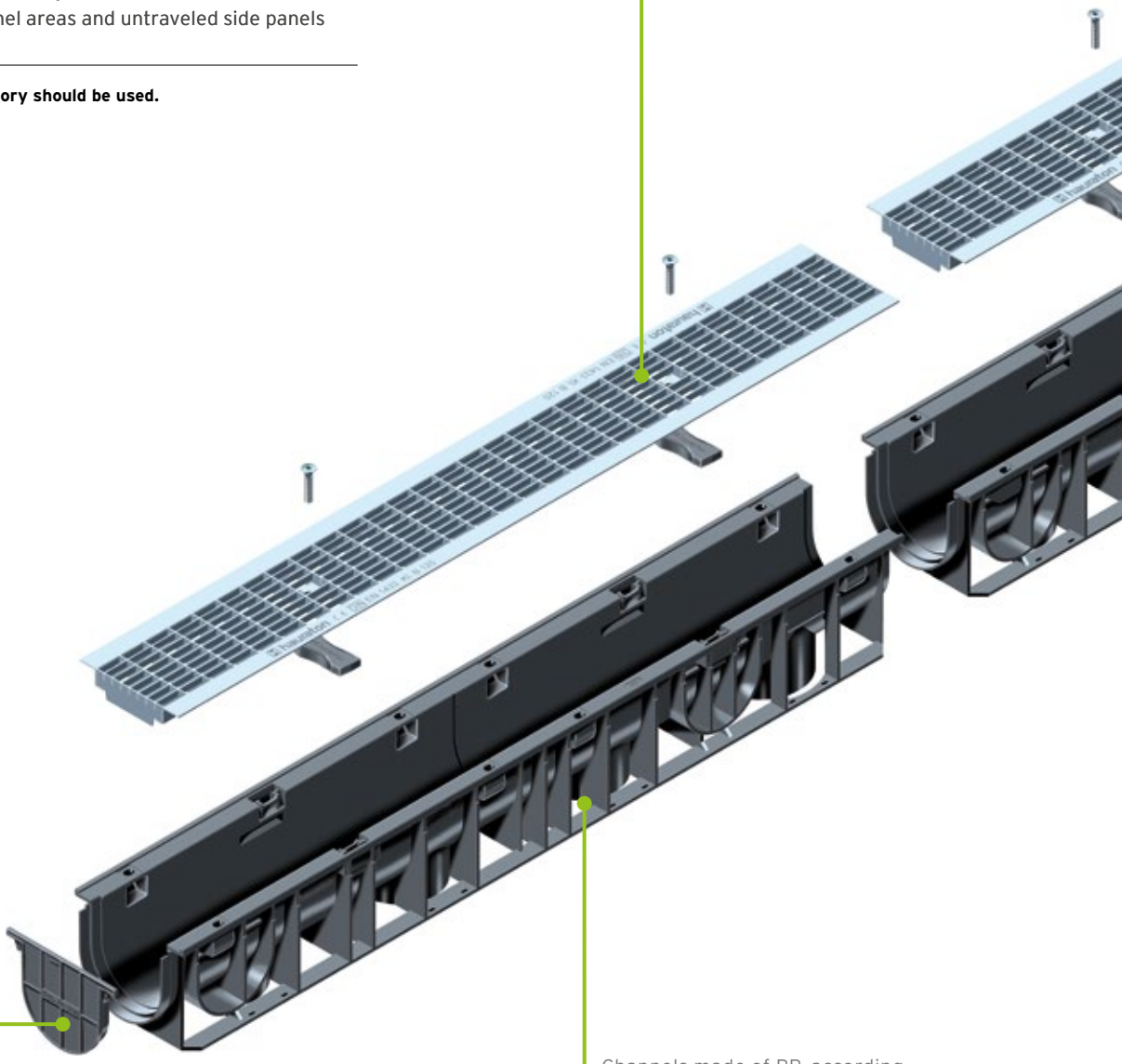
RECYFIX STANDARD channels meet the requirements of DIN EN 1433 and are suitable for the following load categories:

Category A 15, Load class 15 KN
Trafficked areas, which are exclusively used by pedestrians and cyclists

Category B 125, Load class 125 kN
Sidewalks, pedestrian areas and comparable areas, car parks or car parking decks

Category C 250, Load class 250 KN
Sidewalk channel areas and untraveled side panels or similar

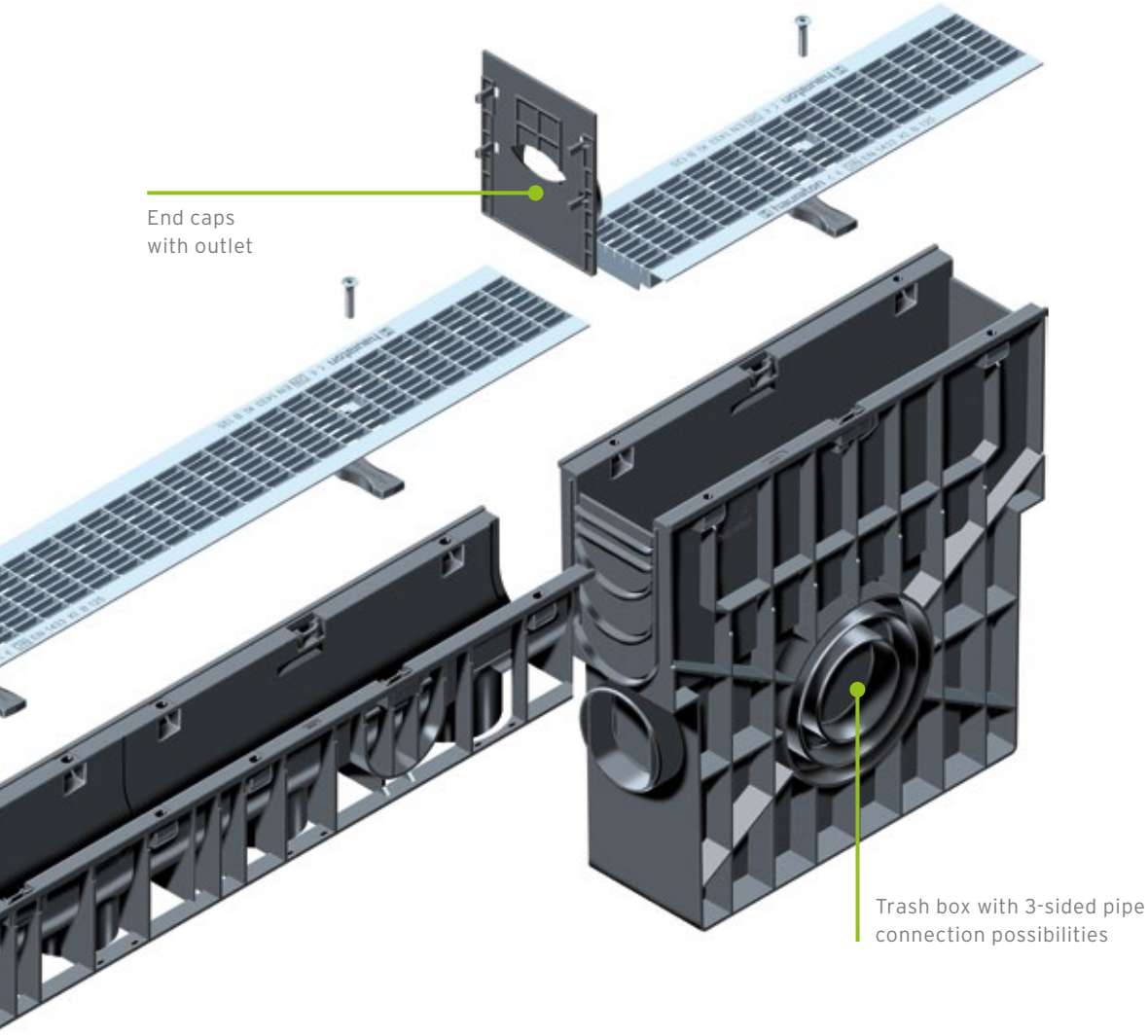
If in doubt, the higher category should be used.



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

End caps without outlet

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



The construction widths and heights of the **RECYFIX** STANDARD:

Nominal width	100			150			200			300		
Type 60	150	60	40	-	-	-	-	-	-	-	-	-
Type 80	150	80	60	-	-	-	-	-	-	-	-	-
Type 100	-	-	-	210	100	79	256	100	79	-	-	-
Type 01	150	134	106	210	192	164	-	-	-	350	292	256
Type 010	150	185	157	-	-	-	256	185	156	420	381	327
Type 020	-	-	-	-	-	-	256	235	207	-	-	-

Width/height/inner height (in mm)

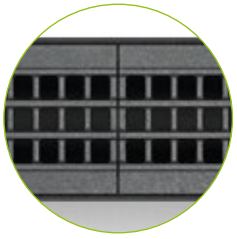
Grating options
RECYFIX STANDARD 100

Ductile iron gratings

Slot width: 80 x 14 mm

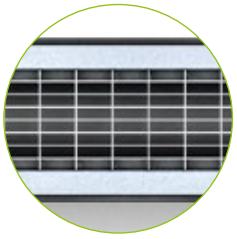
Ductile iron gratings

Slot width: 80 x 6 mm



GUGI ductile iron gratings

Mesh width: 15 x 25 mm



Mesh gratings, galvanised and stainless steel

Mesh width: 30 x 10 mm

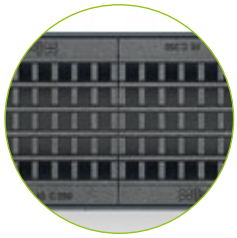
Slotted gratings, galvanised and stainless steel

Slot width: 75 x 9 mm

Perforated gratings, stainless steel

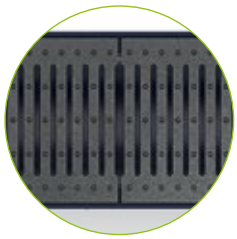
Hole diametre: 6 mm

Grating options
RECYFIX STANDARD 150



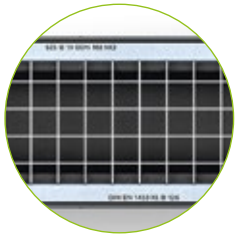
GUGI ductile iron gratings

Mesh width: 15 x 25 mm



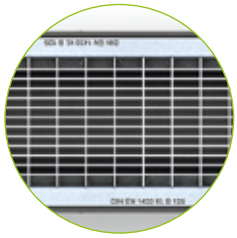
Ductile iron gratings

Slot width: 130 x 6 mm



Mesh gratings, galvanised

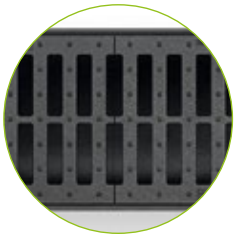
Mesh width: 30 x 30 mm



Mesh gratings, galvanised

Mesh width: 30 x 10 mm

Grating options
RECYFIX STANDARD 200

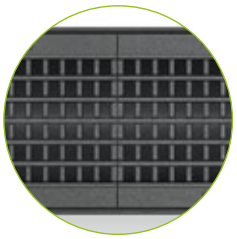


Ductile iron gratings

Slot width: 2 x 85 x 20 mm

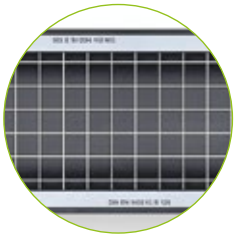
Ductile iron gratings

Slot width: 180 x 6 mm



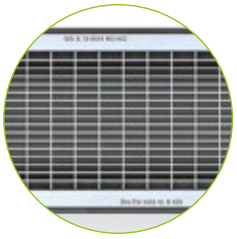
GUGI ductile iron gratings

Mesh width: 15 x 25 mm



Mesh gratings

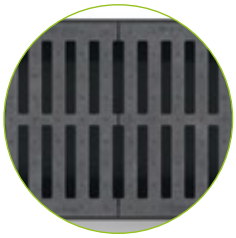
Mesh width: 30 x 30 mm



Mesh gratings, galvanised

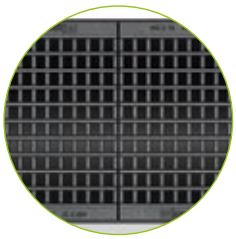
Mesh width: 30 x 10 mm

Grating options
RECYFIX STANDARD 300



Ductile iron gratings

Slot width: 2 x 127 x 18 mm



GUGI ductile iron gratings

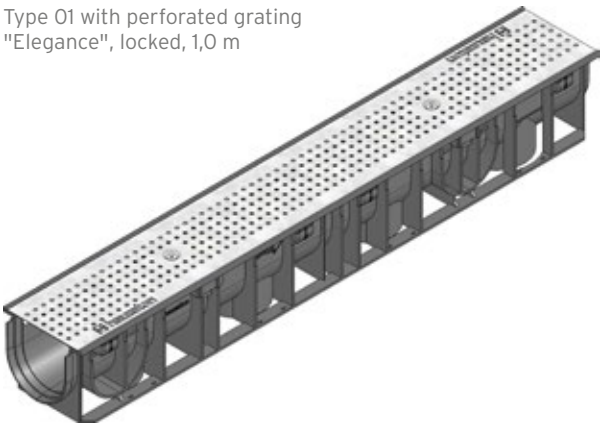
Mesh width: 15 x 25 mm

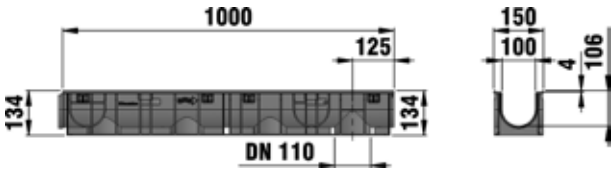
RECYFIX®STANDARD 100

Combi article

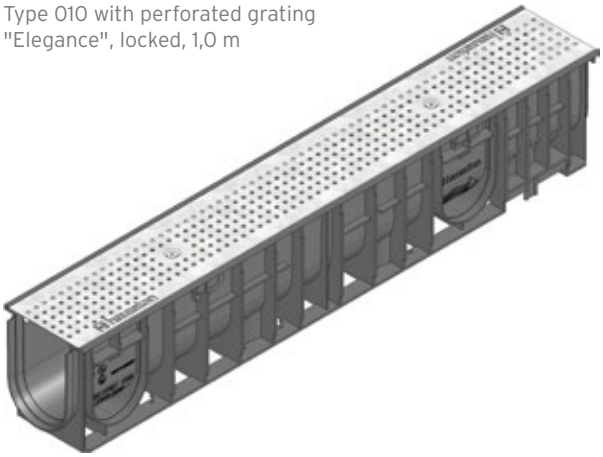
RECYFIX®STANDARD 100, **class A 15**

Type 01 with perforated grating
"Elegance", locked, 1,0 m





Type 010 with perforated grating
"Elegance", locked, 1,0 m



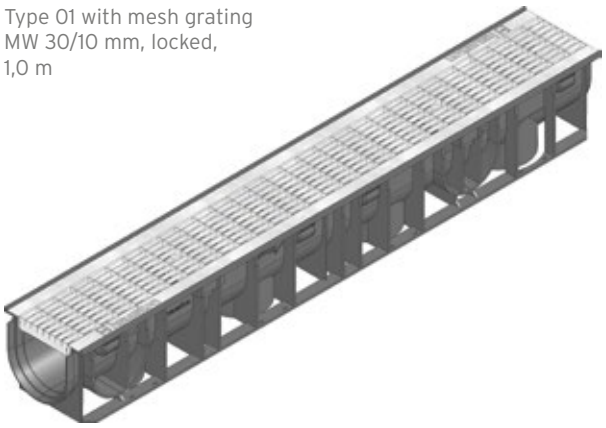
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with perforated grating "Elegance", locked, 1,0 m	1000	150	134	92	102	3,92	41270	41240
Type 0105 with perforated grating "Elegance", locked, 0,5 m	500	150	134	92	102	1,96	41277	41247
Type 010 with perforated grating "Elegance", locked, 1,0 m	1000	150	185	142	102	4,52	41272	41242
Type 01005 with perforated grating "Elegance", locked, 0,5 m	500	150	185	142	102	2,41	41278	41248
Type 60 with perforated grating "Elegance", locked, 1,0 m	1000	150	60	35	102	3,03	41274	41244
Type 80 with perforated grating "Elegance", locked, 1,0 m	1000	150	80	55	102	3,42	41276	41246

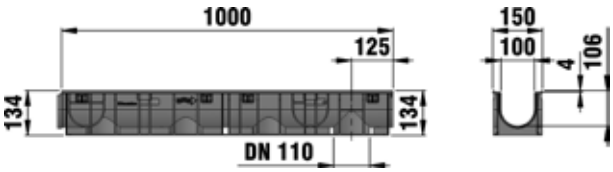
Type 60/type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®STANDARD 100

RECYFIX®STANDARD 100, **trafficable**

Type 01 with mesh grating MW 30/10 mm, locked, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	150	134	92	650	4,60	40232	-
Type 0105 with mesh grating MW 30/10 mm, locked, 0,5 m	500	150	134	92	650	2,25	40262	-
Type 010 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	150	185	142	650	5,28	40297	-
Type 01005 with mesh grating MW 30/10 mm, locked, 0,5 m	500	150	185	142	650	2,74	40267	-
Type 60 with mesh grating MW 30/10 mm, locked, 1,0 m*	1000	150	60	35	650	3,72	40237	-
Type 80 with mesh grating MW 30/10 mm, locked, 1,0 m	1000	150	80	55	650	4,20	40247	-
Type 01 with slotted grating SW 9 mm, locked, 1,0 m	1000	150	134	92	280	3,99	40231	41200
Type 0105 with slotted grating SW 9 mm, locked, 0,5 m	500	150	134	92	280	1,85	40261	41207
Type 010 with slotted grating SW 9 mm, locked, 1,0 m	1000	150	185	142	280	4,58	40296	41202
Type 01005 with slotted grating SW 9 mm, locked, 0,5 m	500	150	185	142	280	2,60	40266	41208
Type 60 with slotted grating SW 9 mm, locked, 1,0 m*	1000	150	60	35	280	3,00	40236	41204
Type 80 with slotted grating SW 9 mm, locked, 1,0 m*	1000	150	80	55	280	3,50	40246	41206

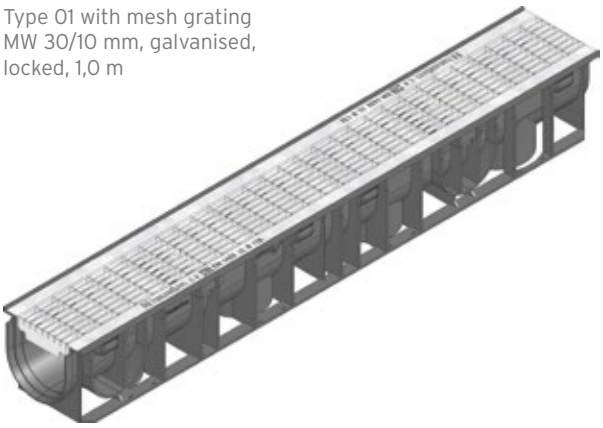
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 60/type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

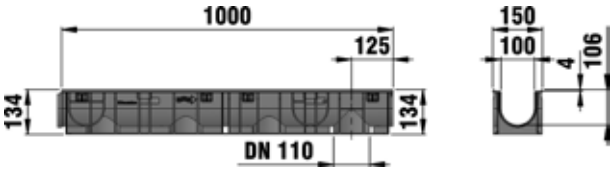
RECYFIX®STANDARD 100

Combi article

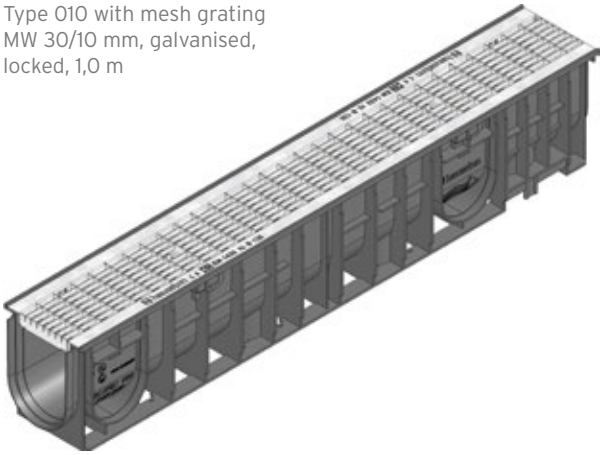
RECYFIX®STANDARD 100, class B 125

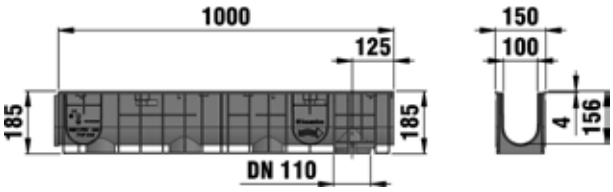
Type 01 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m





Type 010 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m





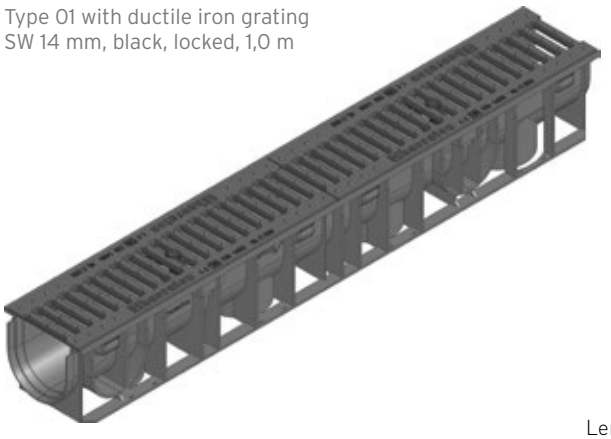
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	150	134	92	650	5,05	41220	41210
Type 0105 with mesh grating MW 30/10 mm, locked, 0,5 m	500	150	134	92	650	2,50	41227	41217
Type 010 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	150	185	142	650	5,68	41222	41212
Type 01005 with mesh grating MW 30/10 mm, galvanised, locked, 0,5 m	500	150	185	142	650	2,94	41228	41218
Type 80 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	150	80	55	650	5,10	41226	41216

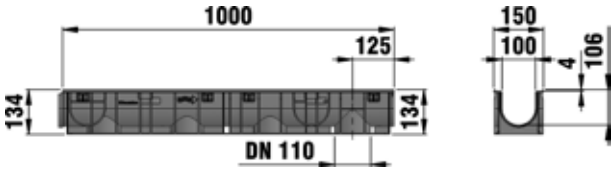
*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 60/type 80 with preformed outlet DN/OD 75.
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

RECYFIX®STANDARD 100

RECYFIX®STANDARD 100, class C 250

Type 01 with ductile iron grating
SW 14 mm, black, locked, 1,0 m





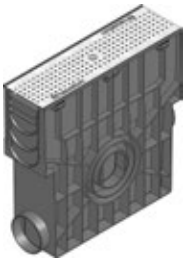
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating SW 14 mm, black, locked, 1,0 m	1000	150	134	92	432	8,18	40233
Type 0105 with ductile iron grating SW 14 mm, black, locked, 0,5 m	500	150	134	92	432	3,75	40263
Type 010 with ductile iron grating SW 14 mm, black, locked, 1,0 m	1000	150	185	142	432	8,77	40298
Type 01005 with ductile iron grating SW 14 mm, black, locked, 0,5 m	500	150	185	142	432	4,50	40268
Type 60 with ductile iron grating SW 14 mm, black, locked, 1,0 m *	1000	150	60	35	432	7,24	40238
Type 80 with ductile iron grating SW 14 mm, black, locked, 1,0 m*	1000	150	80	55	432	7,69	40248
Type 01 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	150	134	92	254	8,34	41230
Type 0105 with ductile iron grating, black, SW 6 mm, locked, 0,5 m	500	150	134	92	254	4,25	41237
Type 010 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	150	185	142	254	8,74	41232
Type 01005 with ductile iron grating, black, SW 6 mm, locked, 0,5 m	500	150	185	142	254	4,52	41238
Type 60 with ductile iron grating, black, SW 6 mm, locked, 1,0 m	1000	150	60	35	254	7,39	41234
Type 80 with ductile iron grating, black, SW 6 mm, locked, 1,0 m	1000	150	80	55	254	7,70	41236
Type 01 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	150	134	92	453	7,10	40234
Type 0105 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 0,5 m	500	150	134	92	453	3,50	40264
Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	150	185	142	453	8,51	40299
Type 01005 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 0,5 m	500	150	185	142	453	4,25	40269
Type 60 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m*	1000	150	60	35	453	6,85	40239
Type 80 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	150	80	55	453	5,50	40253

*** For frequently used areas we recommend FASERFIX KS channels shallow (see CIVILS).**
Type 60/type 80 with preformed outlet DN/OD 75.

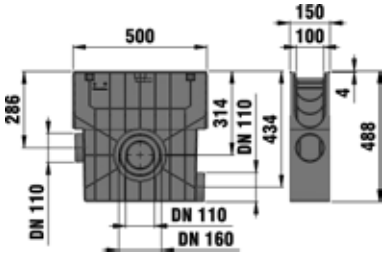
RECYFIX®STANDARD 100

Accessories

Trash boxes

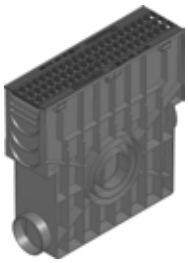


Trash box with perforated grating Ø 6 mm, class A 15, locked, 0,5 m



Trash box with mud bucket and slotted grating, galvanised, trafficable, locked, 0,5 m

Trash box with plastic bucket, with mesh grating, MW 30/10 mm trafficable, locked, 0,5 m



Trash box with plastic bucket and GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with perforated grating Ø 6 mm, class A 15, locked, 0,5 m	500	150	488	5,15	41251	41249
Trash box with mud bucket and slotted grating, galvanised, trafficable, locked, 0,5 m	500	150	488	5,20	48055	48056
Trash box with plastic bucket, with mesh grating, MW 30/10 mm trafficable, locked, 0,5 m	500	150	488	5,59	48057	-
Trash box with plastic bucket, with mesh grating, MW 30/10 mm, class B 125, locked, 0,5 m	500	150	488	5,80	48059	48058
Trash box with plastic bucket and GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m	500	150	488	7,16	40259	-
Trash box with plastic bucket, ductile iron grating SW 14 mm, black, class C 250, locked, 0,5 m	500	150	488	7,09	48053	-
Trash box with plastic bucket, ductile iron grating SW 6 mm, black, class C 250, locked, 0,5 m	500	150	488	7,45	48054	-

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

RECYFIX®STANDARD 100

End caps

End cap, closed
for type 01

End cap closed
for type 010

End cap combined
made of PP with outlet
DN/OD 110, type 010

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap, closed for type 01	-	150	108	0,03	48081
End cap with outlet DN/OD 110 for type 01	-	148	185	0,08	48091
End cap closed for type 010	-	150	160	0,04	40282
End cap combined made of PP with outlet DN/OD 110, type 010	-	148	185	0,10	40283
End cap closed, made of PP, for type 60	-	147	44	0,02	40284
End cap closed, made of PP, for type 80	-	147	64	0,03	40291

Further accessories

Foul air trap, vertical,
DN/OD 110

Foul air trap set, vertical
DN/OD 110 for RECYFIX 100

Foul air trap
for RECYFIX trash box 100

Mud bucket vertical made
of modified composite
for outlet DN/OD 110, black

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Foul air trap for RECYFIX trash box 100	75	78	135	0,08	967
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Step Fall Adapter for step slope, from type 01 to type 010	174	98	86	0,21	41290
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

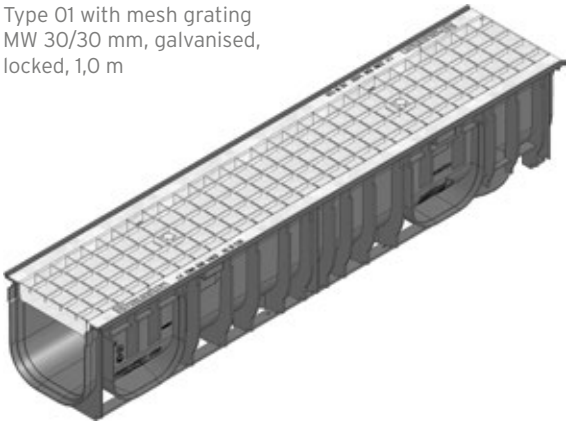
****Amount needed for Type 010: approx. 18 ml per joint**

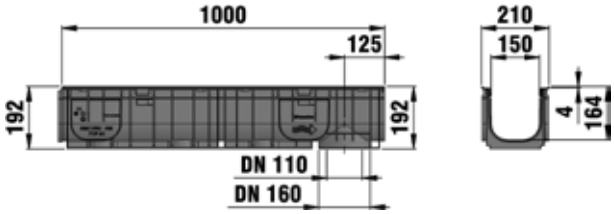
RECYFIX®STANDARD 150

Combi article

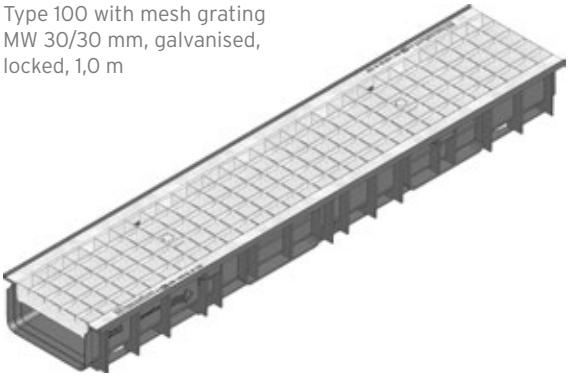
RECYFIX®STANDARD 150, class B 125

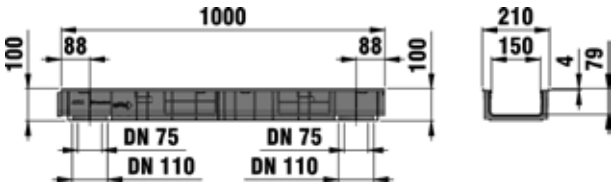
Type 01 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m





Type 100 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m



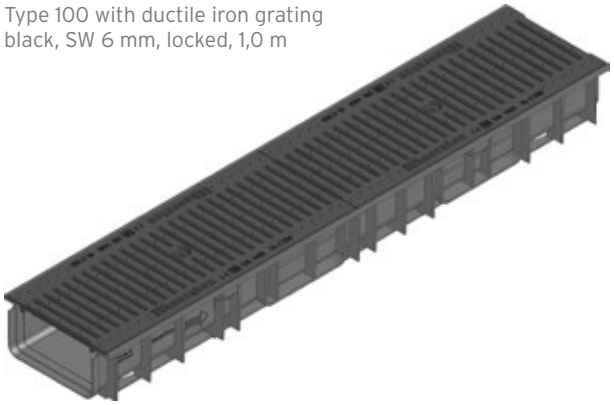


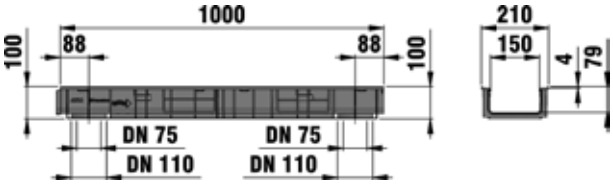
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m	1000	210	192	225	1081	7,70	40171
Type 0105 with mesh grating MW 30/30 mm, galvanised, locked, 0,5 m	500	210	192	225	1081	7,75	40146
Type 100 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m	1000	210	100	116	1081	6,75	40135
Type 01 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	210	192	225	1098	8,95	40177
Type 0105 with mesh grating MW 30/10 mm, galvanised, locked, 0,5 m	500	210	192	225	1098	4,50	40148
Type 100 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	210	100	116	1098	7,80	40136

RECYFIX®STANDARD 150

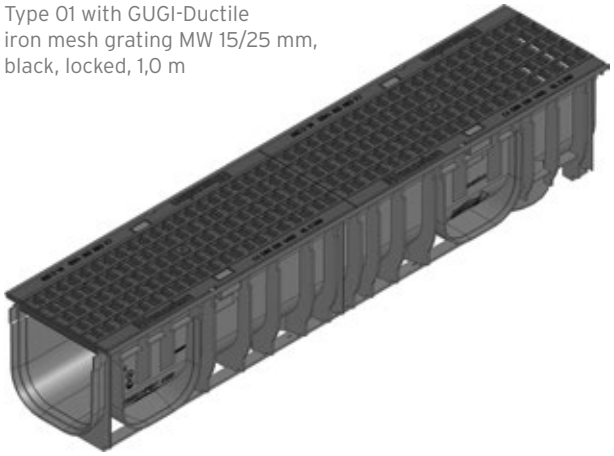
RECYFIX®STANDARD 150, **class C 250**

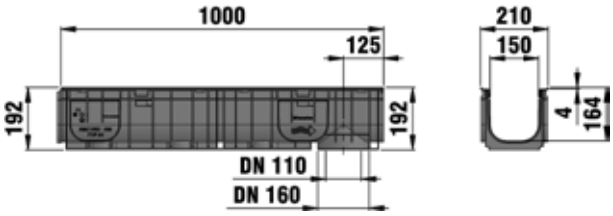
Type 100 with ductile iron grating
black, SW 6 mm, locked, 1,0 m





Type 01 with GUGI-Ductile
iron mesh grating MW 15/25 mm,
black, locked, 1,0 m



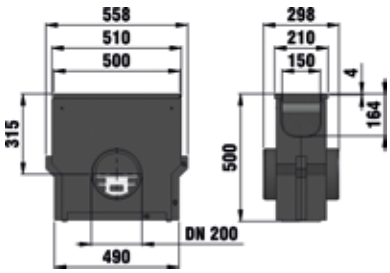


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating black, SW 6 mm, locked, 1,0 m	1000	210	192	225	400	14,00	40176
Type 0105 with ductile iron grating black, SW 6 mm, locked, 0,5 m	500	210	192	225	400	6,58	40150
Type 100 with ductile iron grating black, SW 6 mm, locked, 1,0 m	1000	210	100	116	400	12,98	40137
Type 01 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	210	192	225	735	12,36	40174
Type 0105 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 0,5 m	500	210	192	225	735	6,00	40149
Type 100 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	210	100	116	735	11,59	40141

RECYFIX®STANDARD 150

Accessories

Trash boxes



Trash box with galvanised bucket, with mesh grating MW 30/10 mm, galvanised, class B 125, locked, 0,5 m

Trash box with galvanised bucket with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised bucket, with mesh grating MW 30/30 mm, galvanised, class B 125, locked, 0,5 m	500	210	500	19,95	40154
Trash box with galvanised bucket, with mesh grating MW 30/10 mm, galvanised, class B 125, locked, 0,5 m	500	210	500	17,90	40156
Trash box with galvanised bucket with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m	500	210	500	20,05	40153
Trash box with galvanised mud bucket, with ductile iron grating black, SW 6 mm, locked, 0,5 m	500	210	500	20,10	40157

RECYFIX®STANDARD 150

End caps

End cap combined made of PP with outlet DN/OD 75/110, type 01

End cap closed, type 100

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP with outlet DN/OD 75/110, type 01	-	210	203	0,13	40191
End cap closed, type 100	-	208	100	0,04	40190

Further accessories

Foul air trap, vertical, DN/OD 110

Foul air trap set, vertical DN/OD 110 for RECYFIX 100

	Length mm	Width mm	Height mm	Weight kg	Item No.
Mud bucket vertical made of modified composite for outlet DN/OD 160, black	-	-	-	0,13	845
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

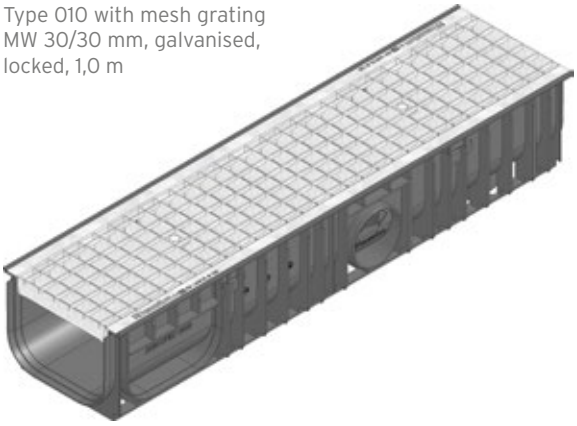
****Amount needed for Type 01: approx. 17 ml per joint**

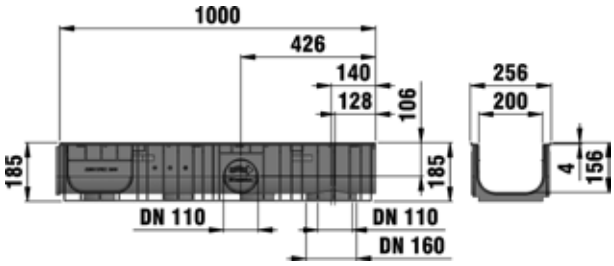
RECYFIX®STANDARD 200

Combi article

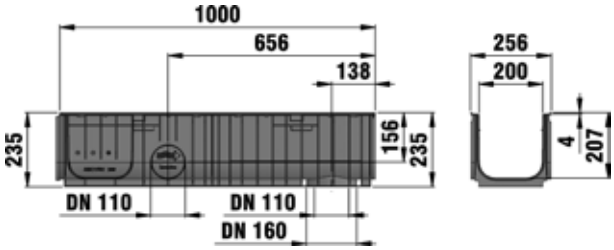
RECYFIX®STANDARD 200, class B 125

Type 010 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m





Type 020 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m

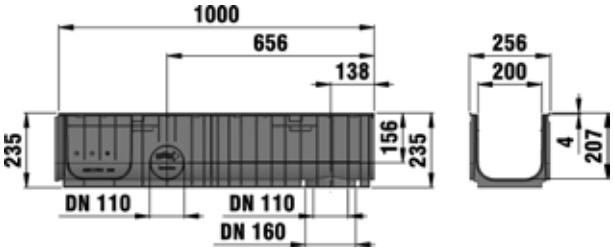


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m	1000	256	185	294	1620	9,30	40672
Type 020 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m	1000	256	235	394	1620	9,67	40676
Type 100 with mesh grating MW 30/30 mm, galvanised, locked, 1,0 m	1000	256	100	150	1620	8,32	40635
Type 010 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	256	185	294	1442	11,20	40685
Type 020 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	256	235	394	1442	11,30	40686
Type 100 with mesh grating MW 30/10 mm, galvanised, locked, 1,0 m	1000	256	100	150	1442	10,12	40636

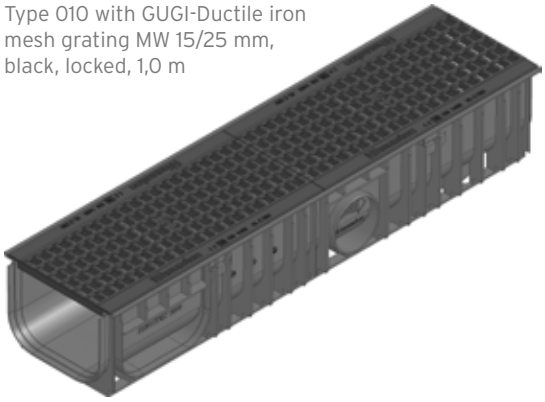
RECYFIX®STANDARD 200

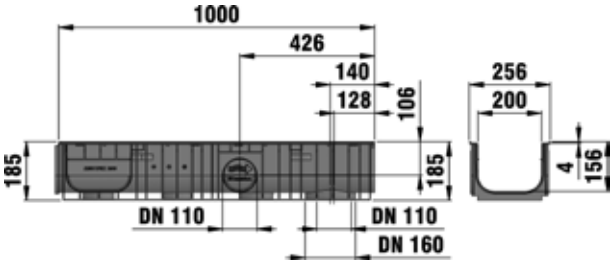
RECYFIX®STANDARD 200, class C 250

Type 020 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m



Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m



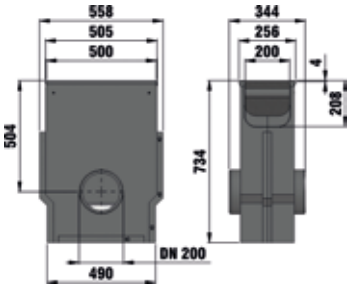


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 010 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m	1000	256	185	294	822	15,00	40660
Type 020 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m	1000	256	235	394	822	15,26	40661
Type 100 with ductile iron grating 2 x 85/20 mm, black, locked, 1,0 m	1000	256	100	150	822	13,92	40640
Type 010 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	256	185	294	557	17,60	40688
Type 020 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	256	235	394	557	18,10	40689
Type 100 with ductile iron grating, SW 6 mm, locked, 1,0 m	1000	256	100	150	557	16,73	40687
Type 010 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	256	185	294	836	15,40	40665
Type 020 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	256	235	394	836	16,98	40666
Type 100 with GUGI-Ductile iron mesh grating MW 15/25 mm, black, locked, 1,0 m	1000	256	100	150	836	15,61	40641

RECYFIX®STANDARD 200

Accessories

Trash boxes



Trash box with mesh grating MW 30/30 mm, galvanised, class B 125, locked, 0,5 m

Trash box with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with mesh grating MW 30/30 mm, galvanised, class B 125, locked, 0,5 m	500	256	734	28,29	40656
Trash box with mesh grating MW 30/10 mm, galvanised, class B 125, locked, 0,5, m	500	256	734	29,29	40657
Trash box with GUGI-Ductile iron mesh grating MW 15/25 mm, black, class C 250, locked, 0,5 m	500	256	734	31,74	40653
Trash box with ductile iron grating 2 x 85/20 mm, black, class C 250, locked, 0,5 m	500	256	734	30,60	40654
Trash box with galvanised mud bucket and ductile iron grating, SW 6 mm, locked, 0,5 m	500	256	734	32,30	40693

RECYFIX®STANDARD 200

End caps

End cap combined made of PP closed / with outlet DN/OD 110, Type 010

End cap closed, FASERFIX KS type 01/ RECYFIX PLUS type 020/ RECYFIX STANDARD type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP closed / with outlet DN/OD 110, Type 010	-	254	199	0,18	40792
End cap closed, FASERFIX KS type 01/ RECYFIX PLUS type 020/ RECYFIX STANDARD type 020	-	260	275	1,28	12081
End cap closed, type 100	-	262	100	0,06	40690

Further accessories

Foul air trap, vertical, DN/OD 110

Foul air trap set, vertical DN/OD 110 for RECYFIX 100

Step Fall Adapter for step slope, from type 010 to type 020

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Step Fall Adapter for step slope, from type 010 to type 020	194	208	89	0,39	49590
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

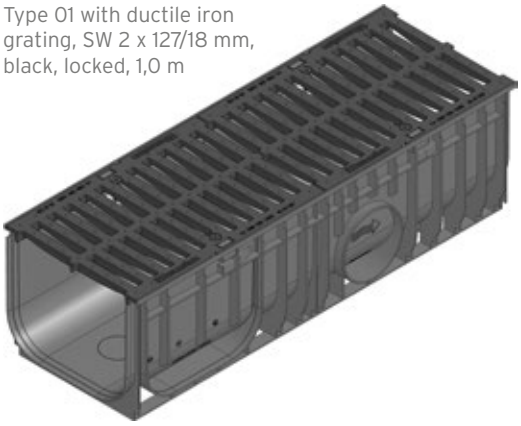
**Amount needed for Type 020: approx. 22 ml per joint

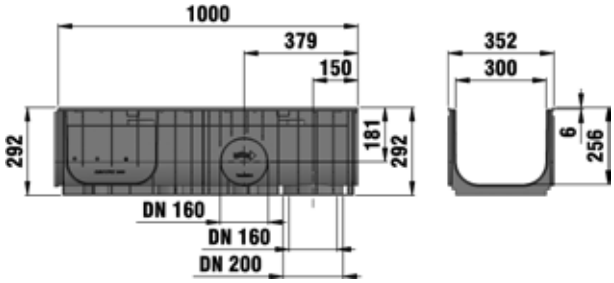
RECYFIX®STANDARD 300

Combi article

RECYFIX®STANDARD 300, class B 125

Type 01 with ductile iron grating, SW 2 x 127/18 mm, black, locked, 1,0 m

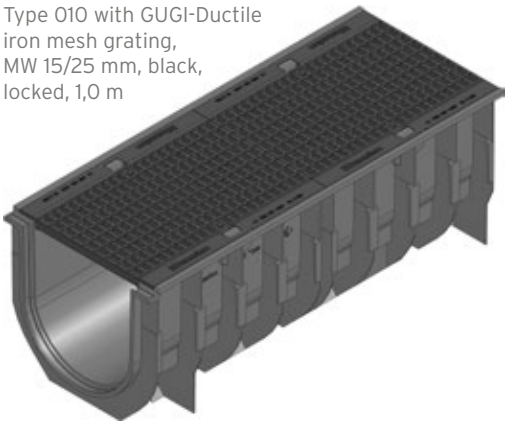


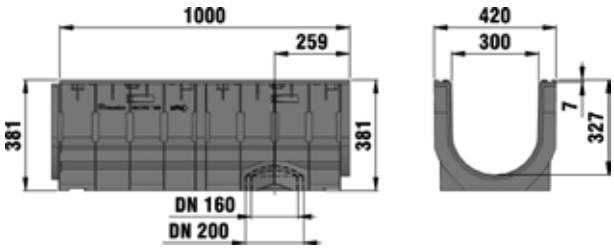


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with ductile iron grating, SW 2 x 127/18 mm, black, locked, 1,0 m	1000	352	292	725	1088	22,74	32864
Type 010 with ductile iron grating, SW 2 x 127/18 mm, black, locked, 1,0 m	1000	420	381	857	1088	28,43	32809

RECYFIX®STANDARD 300, class C 250

Type 010 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, 1,0 m



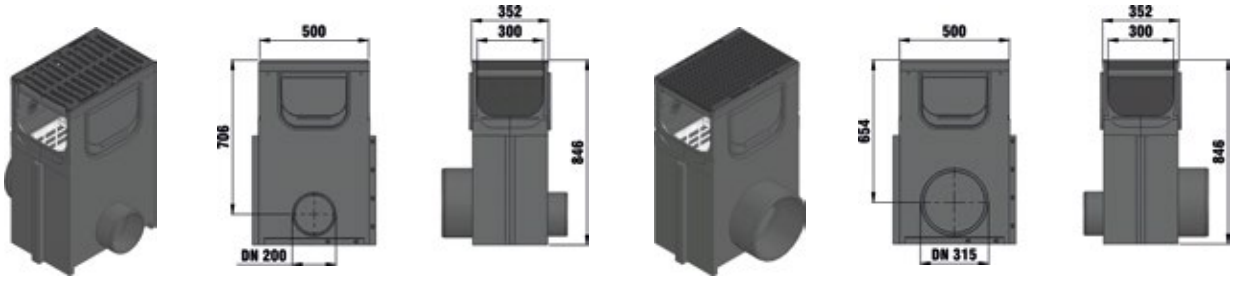


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item No.
Type 01 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, 1,0 m	1000	352	292	725	1322	30,44	40870
Type 010 with GUGI-Ductile iron mesh grating, MW 15/25 mm, black, locked, 1,0 m	1000	420	381	857	1385	35,74	40875

RECYFIX®STANDARD 300

Accessories

Trash boxes



Trash box with galvanised mud bucket and ductile iron grating SW 2 x 127/18 mm, black, class B 125, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m

Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, only suitable for type 01, black, class C 250, locked, with PVC-U pipe outlet DN/OD 315, 0,5 m

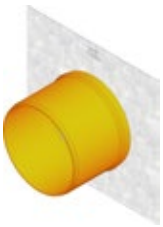
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and ductile iron grating SW 2 x 127/18 mm, black, class B 125, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m	500	352	846	45,54	32865
Trash box with galvanised mud bucket and ductile iron grating SW 2 x 127/18 mm, black, class B 125, locked, with PVC-U pipe outlet DN/OD 315, 0,5 m	500	352	846	45,28	32866
Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, only suitable for type 01, black, class C 250, locked, with PVC-U pipe outlet DN/OD 200, 0,5 m	500	352	846	49,13	32328
Trash box with galvanised mud bucket and GUGI-Ductile iron mesh grating, MW15/25 mm, only suitable for type 01, black, class C 250, locked, with PVC-U pipe outlet DN/OD 315, 0,5 m	500	352	846	49,13	32335

RECYFIX®STANDARD 300

Accessories

End caps

End cap closed, galvanised, type 01



End cap with horizontal PVC-U pipe outlet galvanised, type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, type 01	-	360	340	1,85	40882
End cap closed, galvanised, type 010	-	420	380	2,80	40881
End cap with horizontal PVC-U pipe outlet galvanised, type 01	-	360	340	2,30	40892
End cap with horizontal PVC-U pipe outlet DN/OD 200, galvanised, type 010	-	420	380	3,09	40891

Further accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891

****Amount needed for Type 01: approx. 29 ml per joint**

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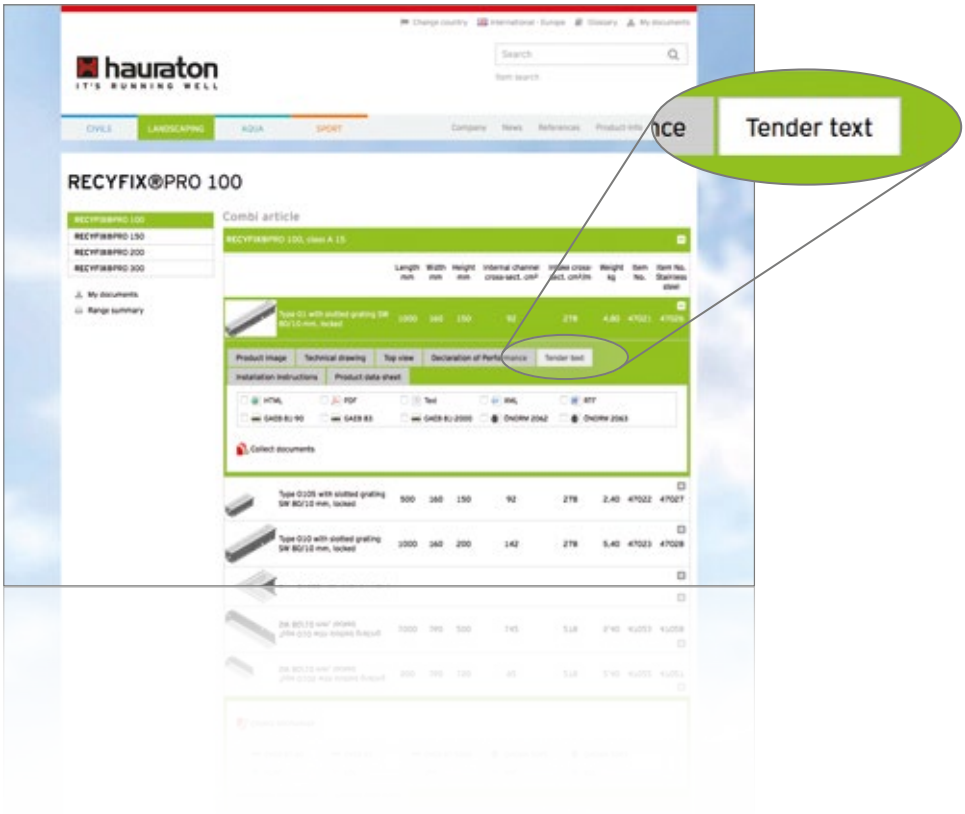
- Choose your item.



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Facade Drainage

Reliable water retention system for terraces, facades and flat roofs.

hauraton

Facade Drainage

Reliable water retention system for terraces, facades and flat roofs.

1 Requirements

- fast and reliable removal of surface water on facades, flat roofs and terraces
- compliance with the guidelines and the flat roof relevant DIN standards
- backwater reserve for sudden accumulation of rainwater rainwater

2 Application areas

- flat roof green areas
- passable roof areas and terraces
- facade channels
- in front of entrances of balconies and terraces

3 Solutions

- powerful backwater reserve for abruptly accumulated water quantities
- horizontal and vertical drainage
- effective protection of walls, doors and windows elements
- open channel systems: channel bodies have drainage possibility on all sides
- barrier-free transitions on terraces
- easy assembling kit

Europa Shopping Centre in Bystrica, Slovakia

Holiday Inn in Bydgoszcz, Poland

Centre for Conservative Medicine, Leipzig, Germany

Leonardo Royal Hotel in Munich, Germany

Penthouse in Wiehl, Germany

Retirement home Hennet, Germany

YOUR BENEFITS WITH **DACHFIX** RESIST

INDIVIDUAL SOLUTIONS

- guidelines for the preparation of corner pieces
- optional height adjustment
- double ribs for the preparation of full 0.5 m pieces
- big length for efficient installation

= DESIGN FLEXIBILITY

VARIOUS GRATING OPTIONS

- variety of materials: PP, galvanised steel, stainless steel

= DESIGN FLEXIBILITY

DURABILITY & HIGH RESISTANCE

- high resistance against frost, de-icing salt and waterlogging
- **DACHFIX** channels withstand all weather influences
- permanentely corrosion-resistant (**DACHFIX** RESIST)

= QUALITY ASSURED

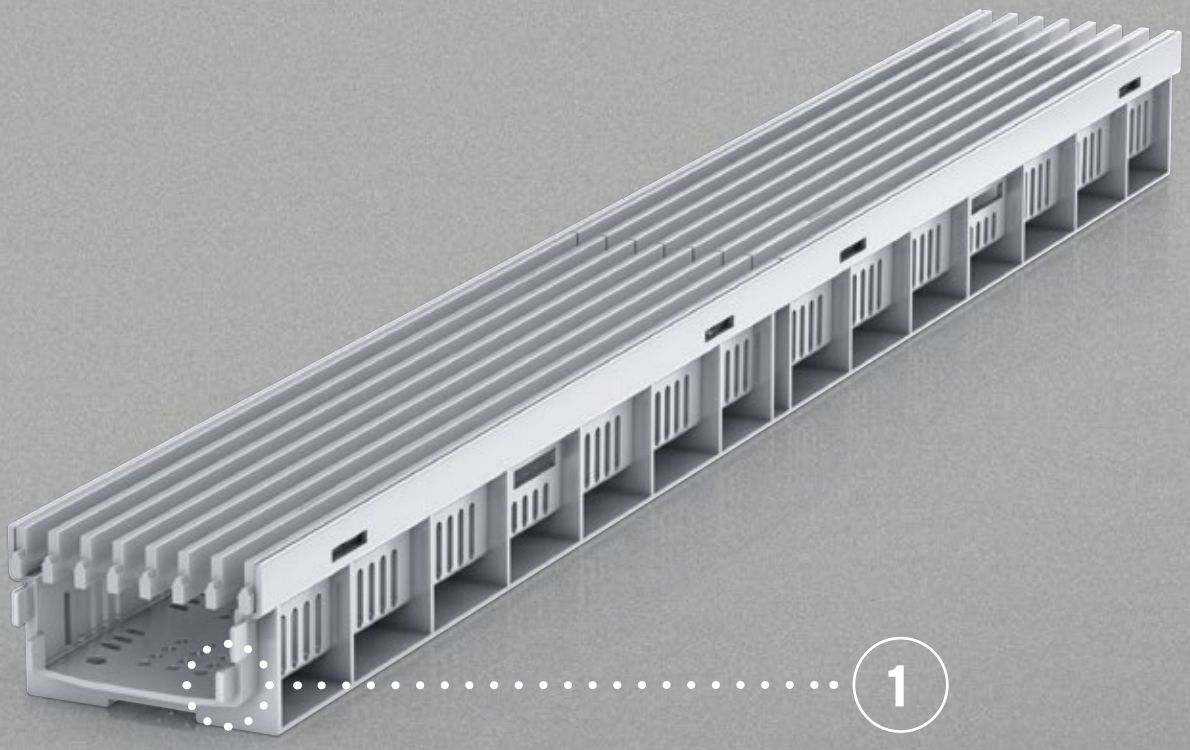
QUICK INSTALLATION

- easy to handle
- tongue and groove system for straight installation

= COST SAVINGS

IDEAL FOR ...

facades and flat roofs. The channels permanently protect buildings from standing or pressurised water.



Tongue and groove system

Option for 100 % corrossion-free

DACHFIX RESIST

Reliable water retention system for terraces, facades and flat roofs.

Modern residential development featuring corrosion-free and durable **DACHFIX** drainage system

Durable and corrosion-free:

Facade and terrace drainage with DACHFIX RESIST.
In Sindelfingen in Swabia, a new state-of-the-art project is being developed in a central location. The idea is that the development, with its 40 residential units ranging from exclusive penthouses to owner-occupied apartments, terraced and semi-detached houses through to sheltered housing for the elderly, will provide housing for a mix of age-groups living together. In line with the high-quality interior specification and the attractive architectural design, all materials – including those for the facade and terrace drainage – are reliable and durable.

DACHFIX RESIST **features:**

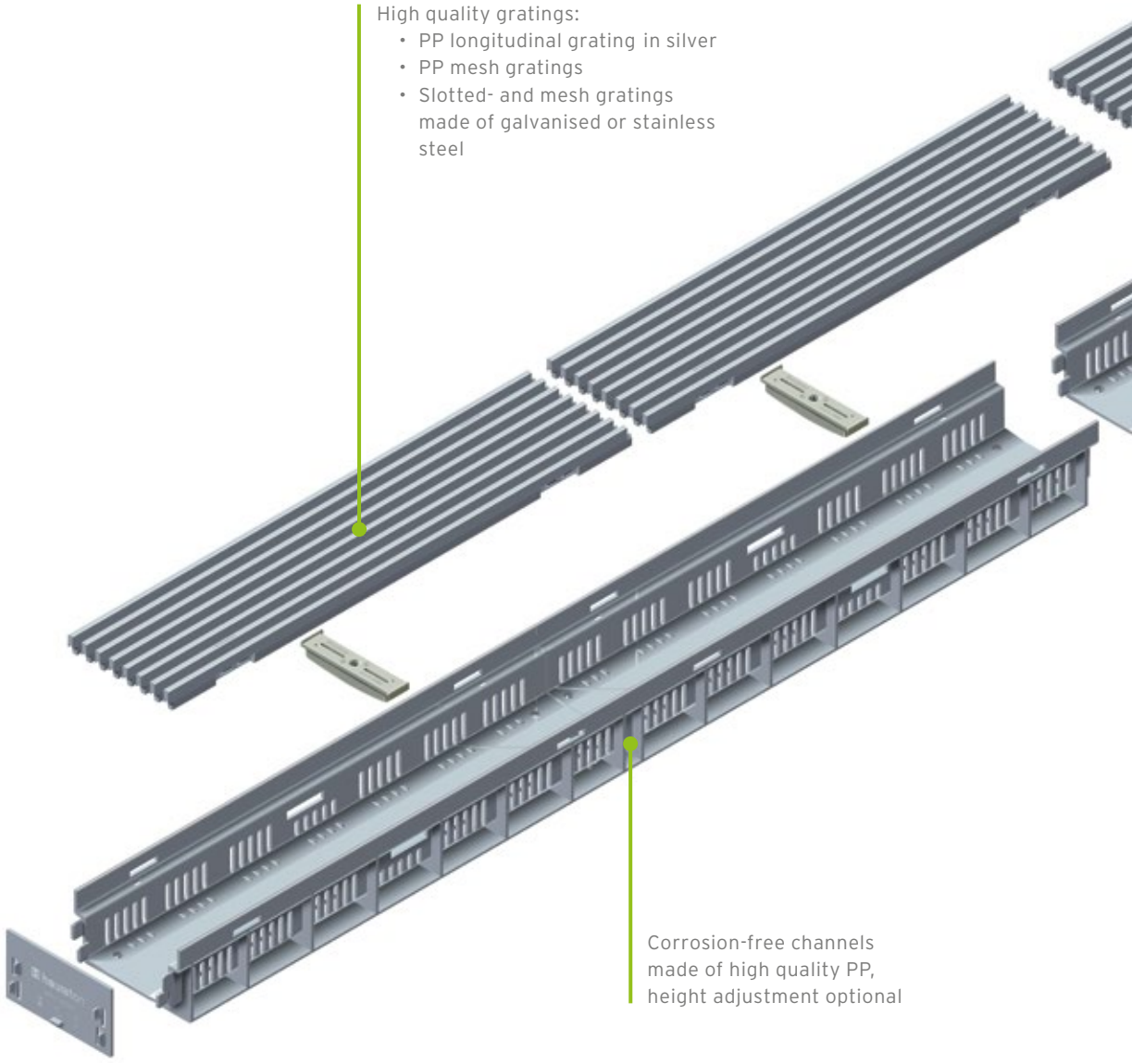
- channels and gratings made of high-quality PP – 100% corrosion-free
- long service life even under permanently wet conditions on roof terraces
- PP longitudinal grating in an attractive and elegant silver-grey design
- very suitable for contact with bare feet at terrace doors
- highly reduced installation costs due to easy installation and low weight

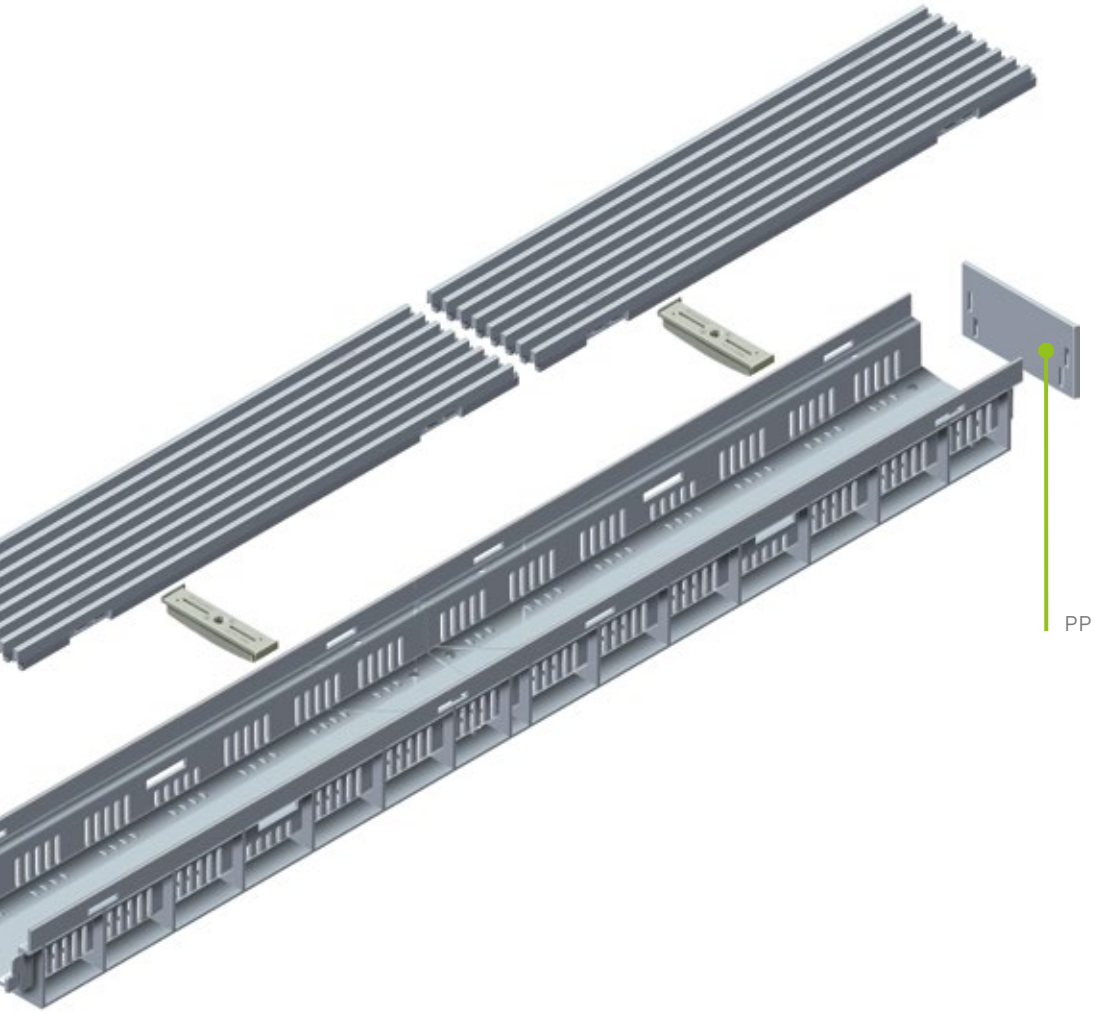
Housing estate in Sindelfingen, Germany

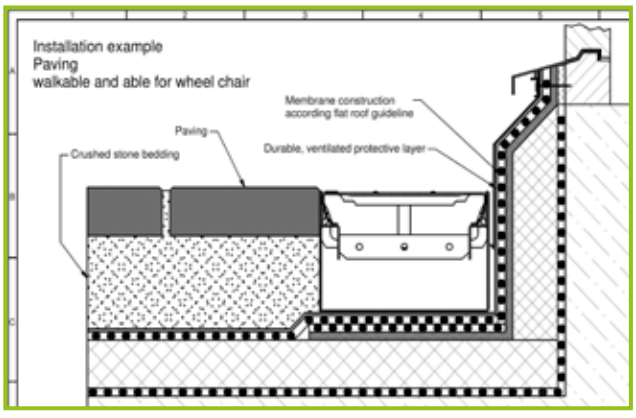
DACHFIX RESIST

Reliable water retention system for terraces, facades and flat roofs.

DACHFIX channels comply with the flat roof guidelines and are suitable for pedestrian traffic and wheelchair access.





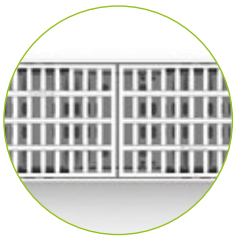


DACHFIX Channels allow a barrier-free access on roof terraces. A height difference of 15 cm between doors or windows elements and sealing level, as prescribed in the flat roof guideline, is not required.

Grating options
DACHFIX RESIST

Longitudinal gratings, PP, silver

Bar distance: 10 mm

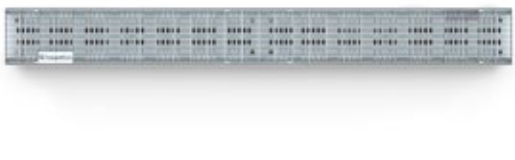


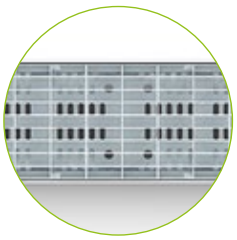
Mesh gratings, PP, silver

Mesh width: 8 x 21 mm

Mesh gratings, PP, black

Mesh width: 8 x 21 mm





Mesh gratings, galvanised and stainless steel

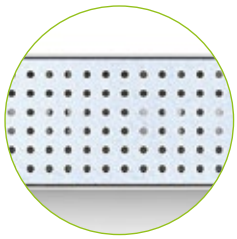
Mesh width: 30 x 10 mm

Longitudinal gratings, galvanised and stainless steel

Bar distance: 12 mm

Slotted gratings, galvanised and stainless steel

Slot width: 80 x 9 mm



Perforated gratings, galvanised and stainless steel

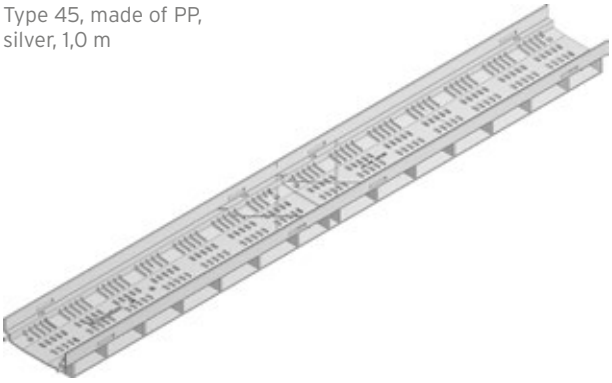
Hole diametre: 6 mm

DACHFIX®RESIST

Channels

DACHFIX®RESIST, height 45 mm, **channels made of recycled composite**

Type 45, made of PP, silver, 1,0 m

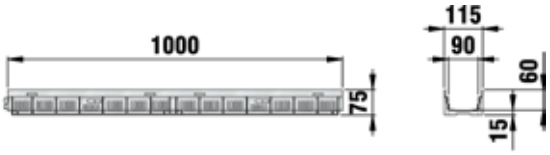


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 45, made of PP, silver, 1,0 m	1000	115	45	-	0,75	63100

Fastening option on request

DACHFIX®RESIST, height 75 mm, **channels made of recycled composite**

Type 75, silver, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 75, silver, 1,0 m	1000	115	75	28	0,88	63000

DACHFIX®RESIST

Gratings

DACHFIX®RESIST 115

Mesh grating, MW 8/21 mm, PP, silver, 0,5 m

Longitudinal grating SW 12 mm, 1,0 m

Longitudinal slot grating made of PP, silver, 0,5 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Mesh grating, MW 8/21 mm, PP, black, 0,5 m	500	108	20	509	0,41	69025	-
Mesh grating, MW 8/21 mm, PP, silver, 0,5 m	500	108	20	509	0,41	69024	-
Mesh grating MW 30/10 mm, 1,0 m	1000	108	20	861	2,30	69020	69022
Mesh grating MW 30/10 mm, 0,5 m	500	108	20	861	1,00	69021	69023
Mesh grating MW 30/10 mm, 1,0 m	1000	108	20	871	2,40	44030	44035
Mesh grating MW 30/10 mm, 0,5 m	500	108	20	853	1,20	44031	44036
Slotted grating SW 80/9 mm, 1,0 m	1000	109	20	256	1,20	44020	44025
Slotted grating SW 80/9 mm, 0,5 m	500	109	20	256	0,60	44021	44026
Longitudinal grating SW 12 mm, 1,0 m	1000	108	20	822	3,13	60900	60905
Longitudinal grating SW 12 mm, 0,5 m	500	108	20	811	1,58	69051	-
Longitudinal slot grating made of PP, silver, 0,5 m	500	108	20	650	0,37	63010	-
Perforated grating, 1,0 m	1000	108	20	104	1,80	60950	60955
Perforated grating, 0,5 m	500	108	20	104	0,89	69037	69043

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

DACHFIX®vRESIST

Accessories

End caps

End cap made of PP
for DACHFIX RESIST type 45

End cap closed, silver,
for DACHFIX RESIST type 75

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap made of PP for DACHFIX RESIST type 45	-	115	35	0,01	63125
End cap closed, silver, for DACHFIX RESIST type 75	-	115	65	0,02	63025

DACHFIX®RESIST

Further accessories

PP locking handle, silver, for DACHFIX RESIST (for stability of the channel system)

Height adjusting set (6 pieces/ set) for DACHFIX RESIST, height 75 mm (1 set per metre required), stainless steel

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
PP locking handle, silver, for DACHFIX RESIST (for stability of the channel system)	100	23	17	0,02	63020	-
Height adjusting set (6 pieces/set) for DACHFIX RESIST, height 75 mm (1 set per metre required), stainless steel	-	-	-	0,18	63095	-
Locking handle set with bolt for mesh grating and longitudinal grating made of PP (2 sets per metre required), for DACHFIX RESIST type 75	-	-	-	0,02	32857	-
Locking handle set with bolt for mesh grating galvanised / stainless steel (2 sets per metre required), for DACHFIX RESIST type 75	-	-	-	0,03	32851	32852
Locking handle set with bolt for perforated grating and slotted grating (2 sets per metre required), for DACHFIX RESIST type 75	-	-	-	0,03	32853	32854
Locking handle set with bolt for longitudinal grating (2 sets per metre required), for DACHFIX RESIST type 75	-	-	-	0,02	-	32856

*** Screw connection has to be ordered seperately. Height adjustable from 81 to 108 mm.**

DACHFIX STEEL Channels

For standard facade drainage.

Facade drainage

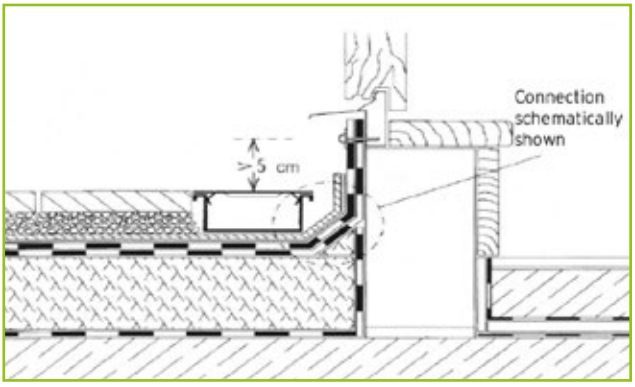
The HAURATON DACHFIX channel range covers all installation situations with the best solutions. Moisture should never be allowed into a building through external areas such as doors and facades. HAURATON products ensure the protection. The channels meet all relevant regulations for facade drainage and provide the following benefits:

- large volumes of rainwater drained quickly and safely
- backflow reserve for sudden heavy rainfall
- avoidance of puddles forming around facade
- indoor areas safeguarded from heavy rainfall

Channels should not be lifted by strong winds and must prevent surface ponding. In many regions also snow, ice and slush require handling efficiently. Heat permeating through doorways can quickly melt snow and ice, creating high volumes of surface water. This may be contained by remaining snow and ice. The DACHFIX range of facade drainage meets all these challenges and more, providing continuous and efficient surface drainage. Correct channel sizing to accommodate for anticipated surface water volumes is provided through comprehensive technical support available from HAURATON.
High architectural standards are maintained through a wide variety of grating designs and combinations: in both galvanised and stainless steel.

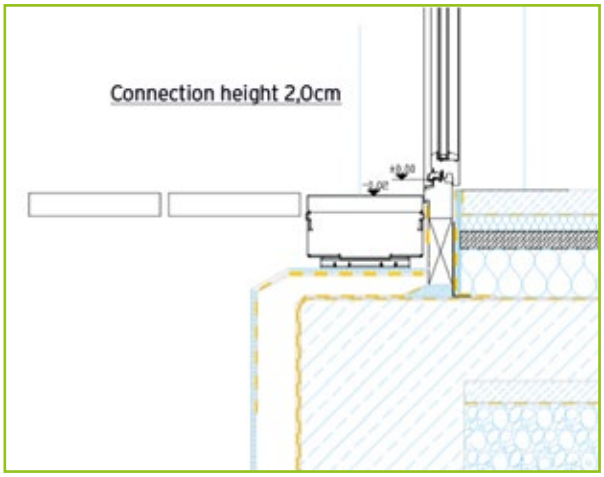
Well-known practical requirements

Height differences from 15 to 0 cm are familiar in the area of building drainage. Without a drainage system a level difference of 15 cm is required. This can be reduced to 5 cm with the use of DACHFIX STEEL. For safety reasons, many buildings are planned with a 5-cm level difference between indoor areas and water-bearing levels. However, this means that these buildings are not barrier-free accessible.



Practical requirements for barrier-free entrances

In practice, a 2 cm-high threshold is often accepted as barrier-free. However, in many public buildings a totally level surface (zero level) is used for handicapped-accessible and barrier-free access. To achieve this, entrances, exits and adjacent surfaces must be precisely constructed with no height differences. DACHFIX STEEL channels can meet both installation scenarios.



Accessibility

Barrier-free entrance: Through precise height adjustment to the floor, DACHFIX STEEL can be fully adapted to suit any environment. HAURATON meets the regulations, high standards and expectations of architects and planners regarding design of barrier-free buildings.

Standard entrance

Particularly essential for people with disabilities

DACHFIX STEEL Channels

The right channel for every installation situation.

Typical on-site installation examples

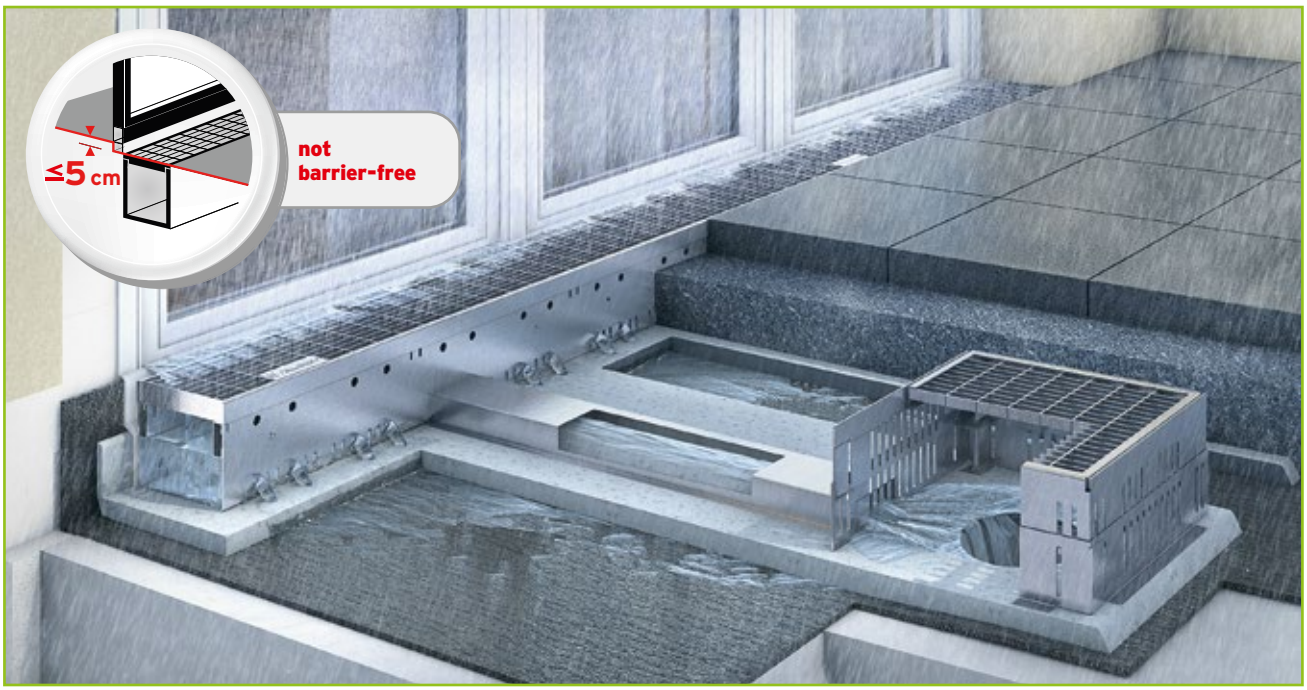
The DACHFIX STEEL channel range covers all standard installation situations and provides the best solution for every purpose.

Important for all installation situations: special attention to height level

If the channels are not connected to the wastewater pipe (installation situations A + B), a level difference of 5 cm between indoor areas and water-bearing levels should be observed. These buildings are not barrier-free accessible. In order to make entrances with a 2-cm difference in level or barrier-free (0 cm), a direct connection to the wastewater drainage system ensures reliable drainage (see installation situations C - E).

Installation situation A - Drainage via cross-intersection channel and **DACHFIX** POINT

- Minimal overall construction, eg. roof terraces (no permeability).
- Drainage of water over a damp-proof-membrane through DACHFIX POINT.
- DACHFIX STEEL channel is connected to DACHFIX POINT via the cross-intersection channel. This ensures continuous drainage even when the roof structure is obstructed by fine particles and infiltration is reduced.



Installation situation B - Drainage without pipe connection to channel, 5 cm threshold

- Solution for reveal area with exit threshold.
- Channels are perforated without pipe connection. The water percolates underground.
- Channels installed with permeable concrete.

DACHFIX STEEL Channels

The right channel for every installation situation.

Installation situation C - Drainage via channel with vertical pipe connection, level entrance (0 cm)

- Solution for reveal area without substructure.
- Channels are perforated. Some of the water is percolated underground.
- Channels installed with permeable concrete.
- Direct connection of channel to wastewater drainage system.

Installation situations D + E - Drainage via drain box, horizontal & vertical connection

- Solutions for a connection at the substructure reveal area with minimal overall construction.
- Channels are perforated. Some of the water percolates underground.
- Channels installed with permeable concrete.
- Direct connection of DACHFIX drain box to wastewater drainage system.

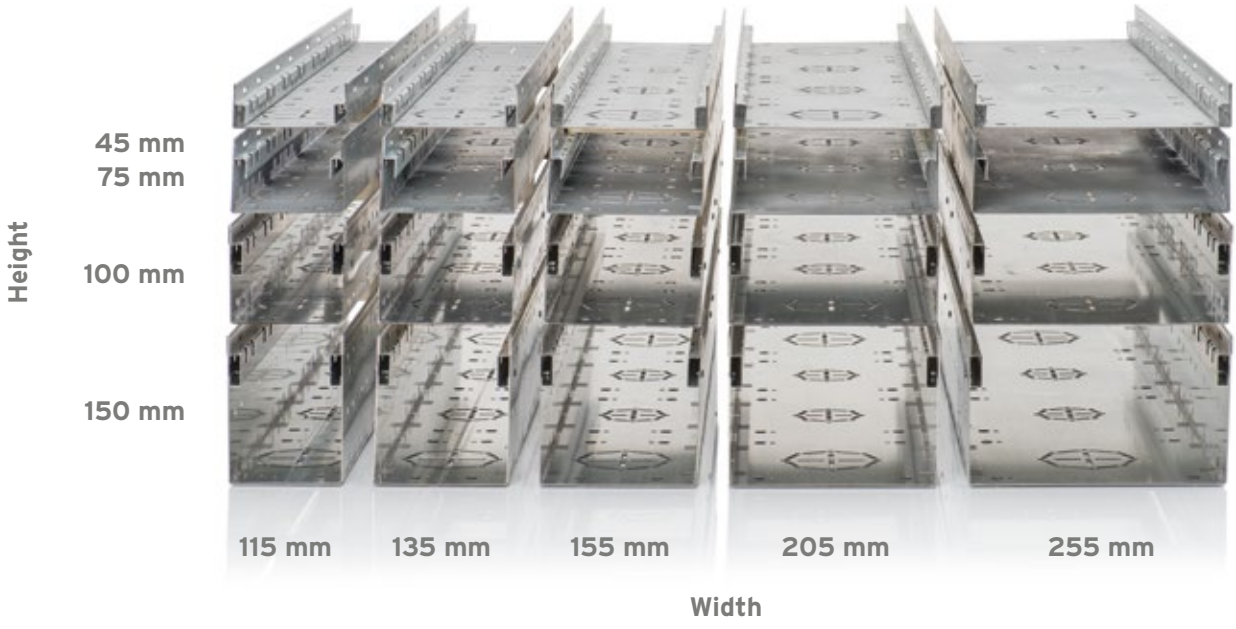
DACHFIX STEEL Channels

The right channel for every installation situation.

Always the right channel for every installation application

DACHFIX STEEL channels were specifically developed for all practical installation applications. A wide range, with 5 widths each in 4 heights, covers project requirements and provides reliable drainage and effective splash-water protection in every case.

- 5 widths (115, 135, 155, 205, 255 mm) each in 4 heights (45, 75, 100, 150 mm)
- the right channel for every application
- large channel widths to capture splash water
- solution for reveal area without substructure
- perforations in channel base for percolation of subsurface water
- channels installed with permeable concrete
- wastewater pipe connection direct to channel
- channels are perforated and connected to DACHFIX drain box via vertical connection



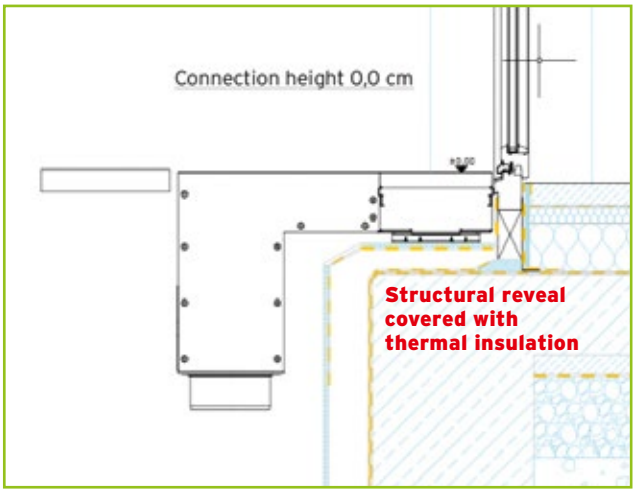
The scope of design is created by the wide range of different grating options.
Whether a slotted, mesh, perforated or longitudinal grating – the product range always provides the right solution.

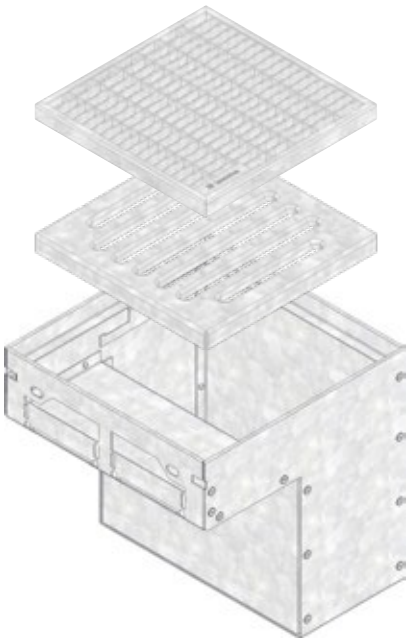
Unique: The DACHFIX drain box

Reveals are provided with thermal insulation and therefore require drainage channels with shallow inverts. In this case there is no possibility for a positive pipe connection (vertical or horizontal).

The DACHFIX drain box sits on top of the protruding insulation board to provide positive connection to the channel and carry water to a discharge point beyond the structure; with the option for vertical or horizontal pipe connection at least 15 cm lower than the channel invert.

- allows a vertical or horizontal connection with substructure areas (reveal, thermal insulation)
- can be installed with 25 x 25 cm standard tiles without being cut
- 2 drain box designs are compatible with all DACHFIX STEEL channels
- matching gratings provide uniform appearance with DACHFIX STEEL channels





DACHFIX STEEL Channels

Application areas for DACHFIX STEEL Channels.

Security in planning and implementation

DACHFIX STEEL channels are especially developed for reliable and safe drainage of facades and flat roofs. The channels permanently protect buildings from standing or pressurised water while enabling entrances and passages to be made accessible.

- wide variety of channels with different widths and heights
- cover all standard installation situations
- implementation in accordance with standards and guidelines
- wide range of gratings for design flexibility
- hydraulic calculation provided by HAURATON Project Management Team

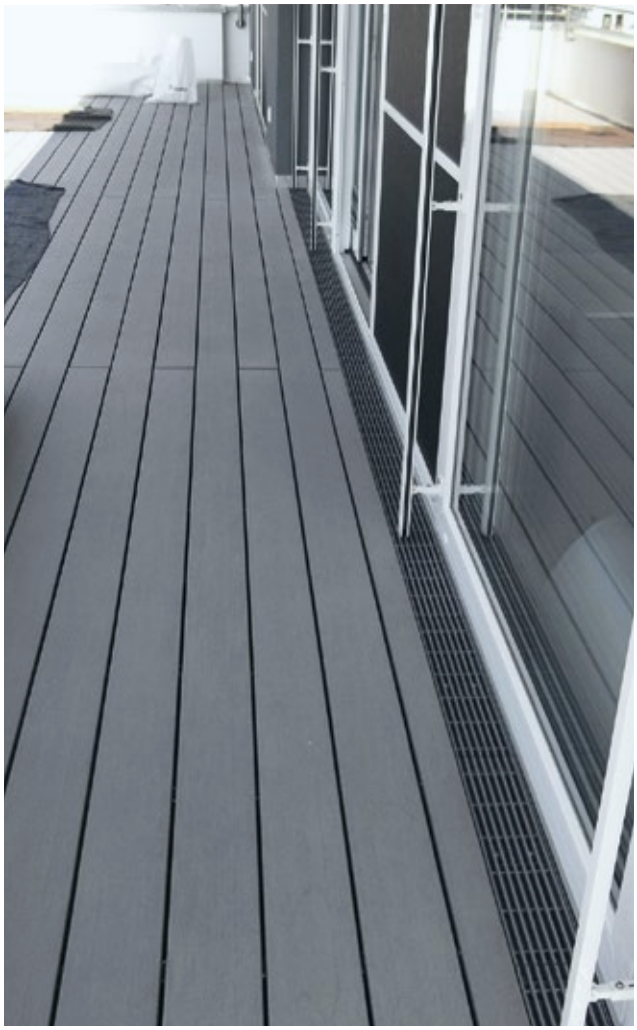
Application areas

- facades
- roof terraces
- flat roofs
- floor areas
- substructured reveal areas

Residence hall Scheuchzerstraße, Zurich, Switzerland

Residential area, Sindelfingen

Adalbert-Stifter-School, Nuremberg



Penthouse, Wiehl

Leonardo Royal Hotel, Munich

YOUR BENEFITS WITH **DACHFIX** STEEL

ONE PRODUCT RANGE FOR ALL INSTALLATION SITUATIONS

- five widths: 115 mm, 135 mm, 155 mm, 205 mm and 255 mm
- four heights: 45 mm, 75 mm, 100 mm and 150 mm
- accommodates large volume of water/ melt water

= PERFORMANCE ASSURED / DESIGN FLEXIBILITY

REMOVABLE SECTION IN BASE

- connection: DN 75 and DN 110

= DESIGN FLEXIBILITY / COST SAVINGS

PRACTICAL HEIGHT ADJUSTMENT

- easy adjustment on uneven surfaces
- simple handling with 2 set screws
- placeable at several positions in the channel

= DESIGN FLEXIBILITY

NUMEROUS GRATING OPTIONS

- made of recycled composite, galvanised steel, stainless steel
- aesthetic mesh and longitudinal gratings
- customised gratings available

= DESIGN FLEXIBILITY

UNIQUE END CAP

- easy to fix with clip function

= COST SAVINGS

SPECIAL LOCKING HANDLE SYSTEM

- locking handle for:
  - easy connection of channel elements
  - additional fixing option of grating
- locking handle can be retrofitted at any time

= PERFORMANCE ASSURED

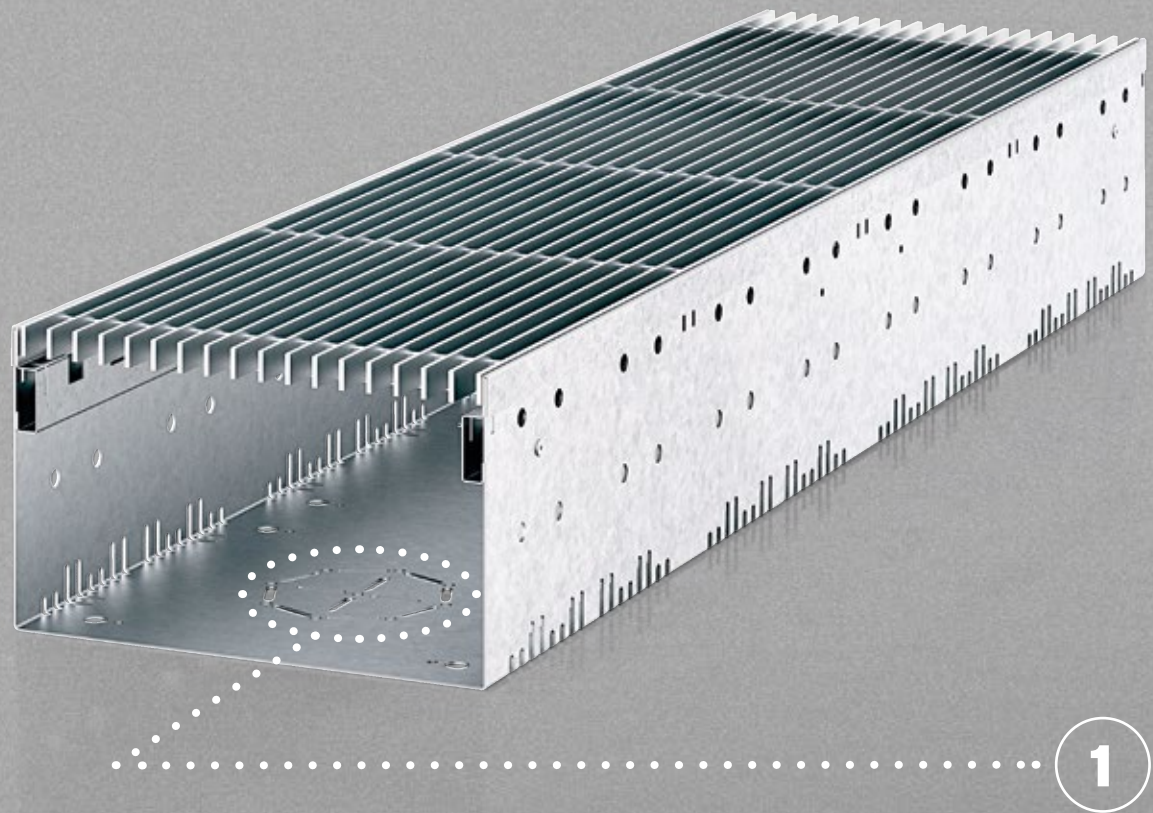
EASY CONNECTION OPTIONS

- direct connection via removable section in base (DN/OD 75 + DN/OD 110)
- drain box outlet in substructure; vertical or horizontal connection
- via cross-intersection channel to **DACHFIX** POINT

= DESIGN FLEXIBILITY / PERFORMANCE ASSURED / COST SAVINGS

IDEAL FOR ...

facades and flat roofs. The channels permanently protect buildings from standing or pressurised water.



1

Innovative perforation
for simple on-site connection

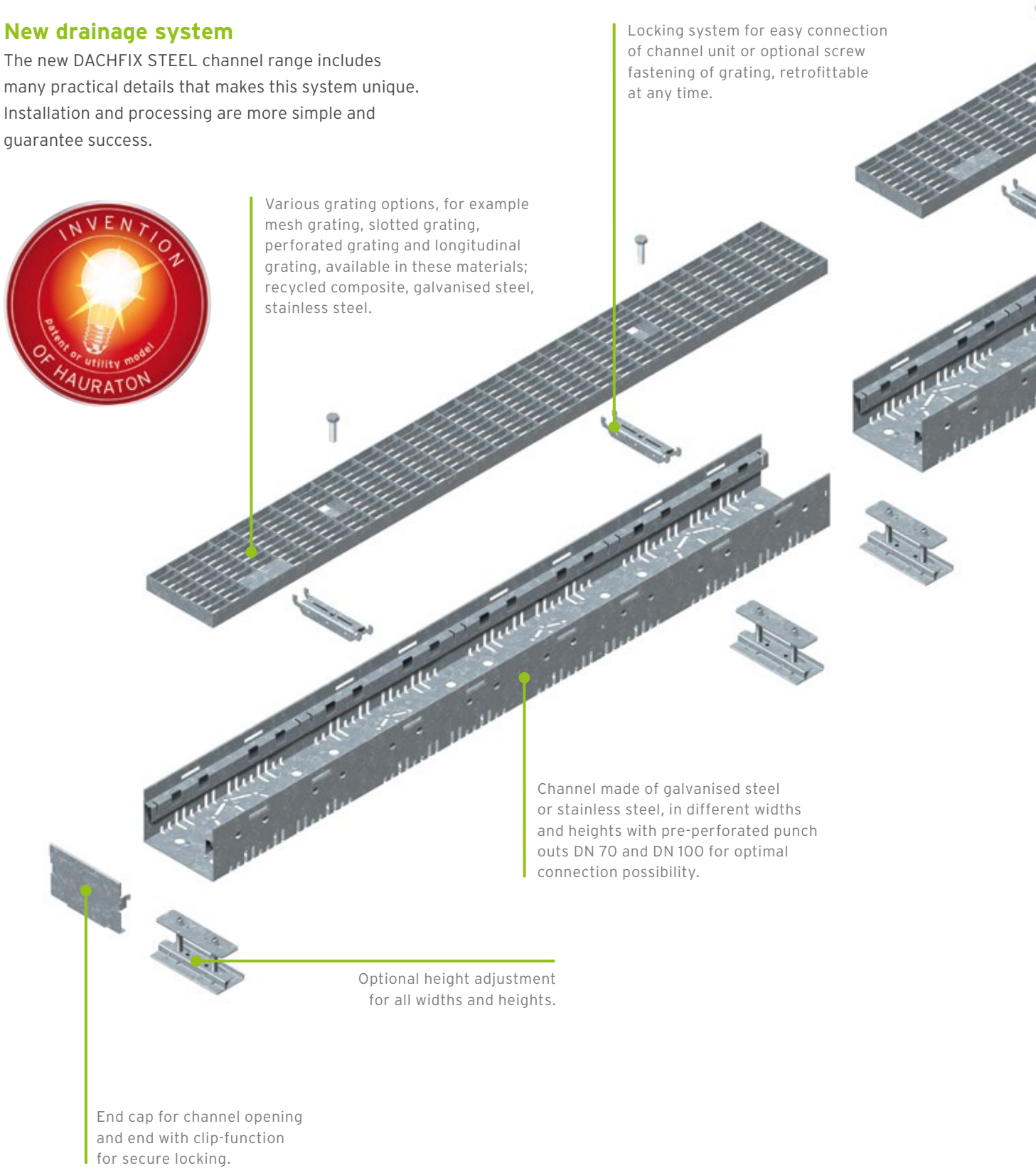
DACHFIX STEEL Channels

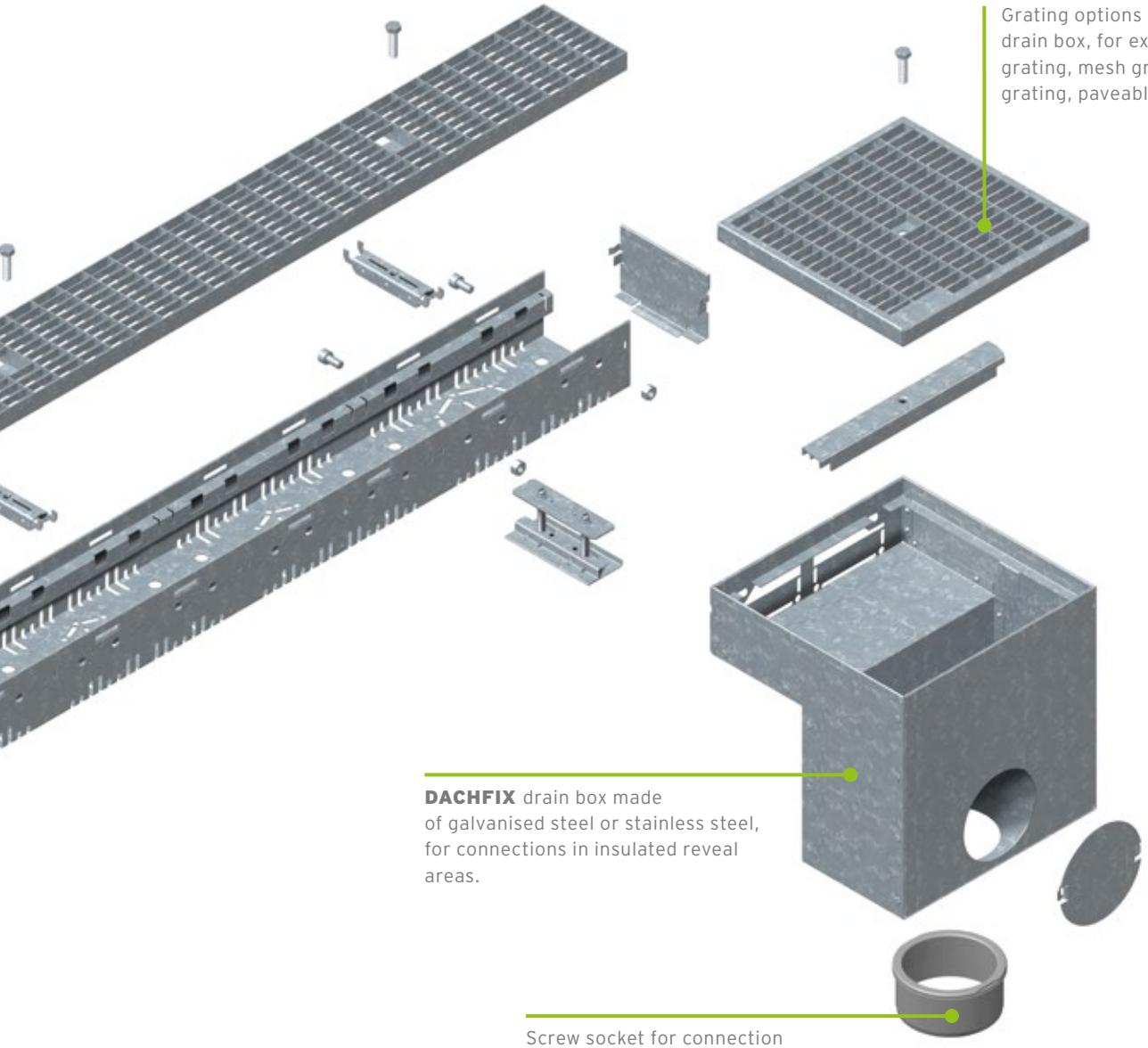
Reliable backwater reserve for terraces, facades and flat roofs.

DACHFIX Channels are suitable for pedestrian traffic and wheelchair access.

New drainage system

The new DACHFIX STEEL channel range includes many practical details that makes this system unique. Installation and processing are more simple and guarantee success.



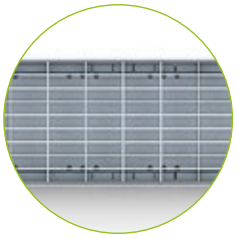


Grating options for **DACHFIX** drain box, for example slotted grating, mesh grating, longitudinal grating, paveable cover.

DACHFIX drain box made of galvanised steel or stainless steel, for connections in insulated reveal areas.

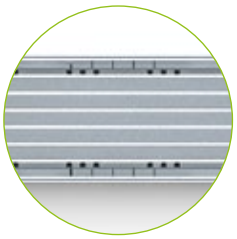
Screw socket for connection to drain box, also optional for connection in the channel.

Grating options
DACHFIX STEEL 115



Mesh gratings, galvanised and stainless steel

Mesh width: 30 x 10 mm

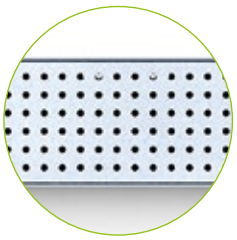


Longitudinal gratings, galvanised and stainless steel

Bar distance: 9 mm

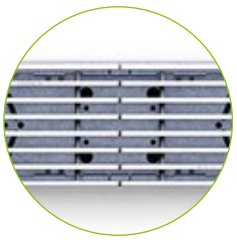
Slotted gratings, galvanised and stainless steel

Slot width: 80 x 9 mm



Perforated gratings, galvanised and stainless steel

Hole diametre: 6 mm



Longitudinal gratings, PP, silver

Bar distance: 9 mm

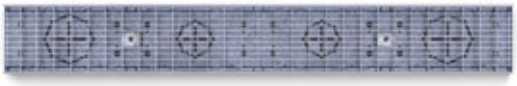
Mesh gratings, PP, silver

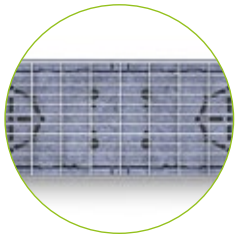
Mesh width: 80 x 21 mm

Mesh gratings, PP, black

Mesh width: 80 x 21 mm

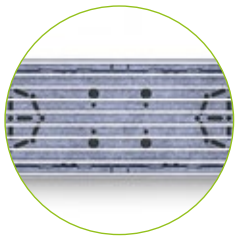
Grating options
DACHFIX STEEL 135





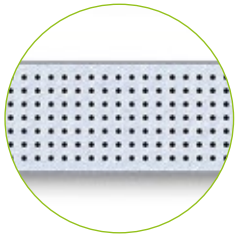
Mesh gratings, galvanised and stainless steel

Mesh width: 30 x 10 mm



Longitudinal gratings, galvanised and stainless steel

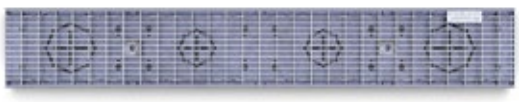
Bar distance: 11 mm

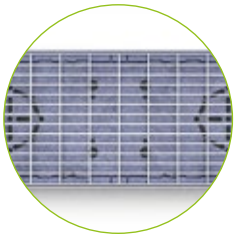


Perforated gratings, galvanised and stainless steel

Hole diametre: 6 mm

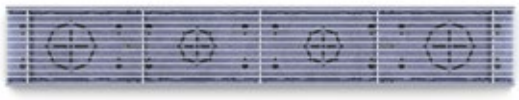
Grating options
DACHFIX STEEL 155

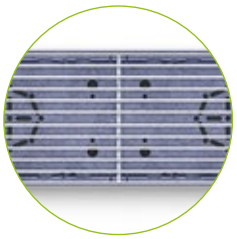




Mesh gratings, galvanised

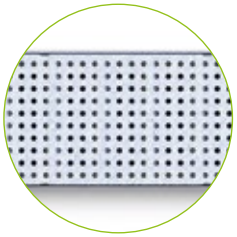
Mesh width: 30 x 10 mm





Longitudinal gratings, galvanised

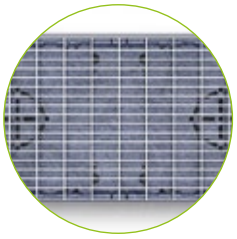
Bar distance: 11 mm



Perforated gratings, galvanised and stainless steel

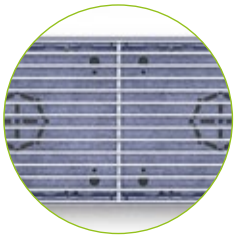
Hole diametre: 6 mm

Grating options
DACHFIX STEEL 205



Mesh gratings, galvanised

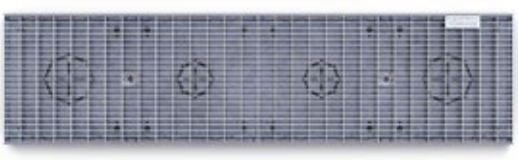
Mesh width: 30 x 10 mm

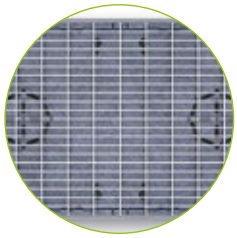


Longitudinal gratings, galvanised

Bar distance: 12 mm

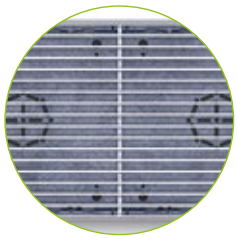
Grating options
DACHFIX STEEL 255





Mesh gratings, galvanised

Mesh width: 30 x 10 mm



Longitudinal gratings, galvanised

Bar distance: 11 mm

DACHFIX®STEEL 115

Channels

DACHFIX®STEEL 115, **height 45 mm**

Type 45, 1,0 m

Type 45, height adjustable, 1,0 m

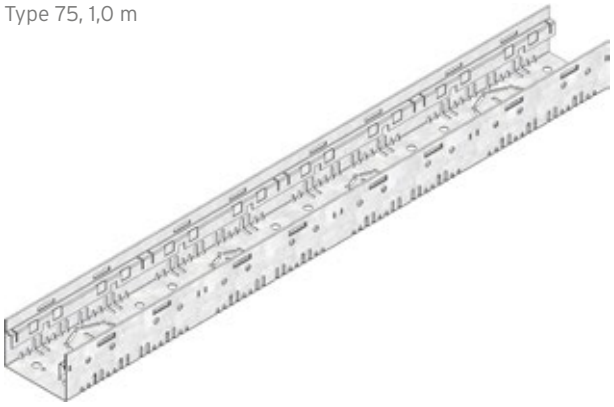
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 45, 1,0 m	1000	115	45	27	2,10	65000	65010
Type 45, height adjustable, 1,0 m	1000	115	59 - 74	27	2,39	65003	65013

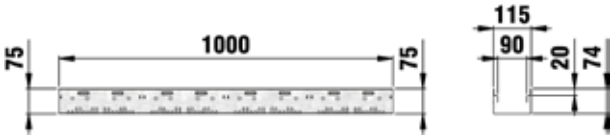
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 115

DACHFIX®STEEL 115, **height 75 mm**

Type 75, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 75, 1,0 m	1000	115	75	60	2,68	65025	65035
Type 75, height adjustable, 1,0 m	1000	115	89 - 124	60	2,90	65028	65038

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

DACHFIX®STEEL 115

Channels

DACHFIX®STEEL 115, **height 100 mm**

Type 100, galvanised, 1,0 m

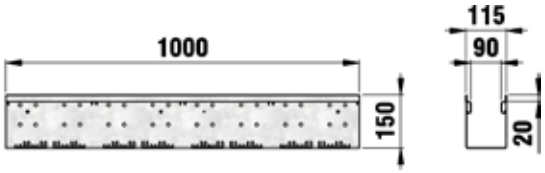
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 100, galvanised, 1,0 m	1000	115	100	87	4,61	65050	-
Type 100, height adjustable, 1,0 m	1000	115	114 - 149	87	5,05	65053	65063

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

DACHFIX®STEEL 115

DACHFIX®STEEL 115, **height 150 mm**

Type 150, galvanised, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 150, galvanised, 1,0 m	1000	115	150	142	5,77	65075	-
Type 150, 0,5 m	500	115	150	142	2,99	65080	-
Type 150, height adjustable, 1,0 m	1000	115	164 - 199	142	6,28	65078	65088

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

DACHFIX®STEEL 115

Gratings

DACHFIX®STEEL 115

Mesh grating, MW 8/21 mm, PP, silver, 0,5 m

Longitudinal grating SW 12 mm, 1,0 m

Longitudinal slot grating made of PP, silver, 0,5 m

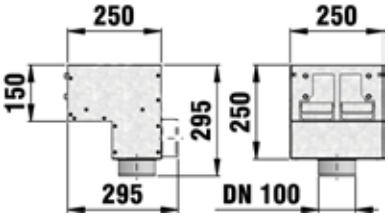
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Mesh grating, MW 8/21 mm, PP, silver, 0,5 m	500	108	20	509	0,41	69024	-
Mesh grating, MW 8/21 mm, PP, black, 0,5 m	500	108	20	509	0,41	69025	-
Longitudinal grating SW 12 mm, 1,0 m	1000	108	20	822	3,13	60900	60905
Longitudinal slot grating made of PP, silver, 0,5 m	500	108	20	650	0,37	63010	-
Mesh grating MW 30/10 mm, 1,0 m	1000	108	20	861	2,30	69020	69022
Slotted grating SW 80/9 mm, 1,0 m	1000	108	20	256	1,20	69026	69030
Slotted grating SW 80/9 mm, 0,5 m	500	108	20	256	0,60	69028	69032
Perforated grating, 1,0 m	1000	108	20	104	1,80	60950	60955

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

DACHFIX®STEEL 115

Accessories

Drain box, **base**



Drain box for type 100, 150
with paveable cover

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Drain box for type 45,75	250	250	250	2,49	65500	65510
Drain box for type 100,150	250	250	250	2,57	65503	65513
Drain box for type 100, 150 with paveable cover	250	250	250	6,13	65505	65515
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

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

Drain box, **grating**

Slotted grating

Mesh grating,
MW 30/10 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating	242	242	20	116	1,07	60524	60534
Mesh grating, MW 30/10 mm	242	242	20	1704	1,20	60521	60531

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

DACHFIX®STEEL 115

Accessories

End caps

End cap type 45, closed

End cap type 100, closed

End cap type 150, closed

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap type 45, closed	-	-	-	0,05	65019	65020
End cap type 75, closed	-	-	-	0,08	65044	65045
End cap type 100, closed	-	-	-	0,12	65069	-
End cap type 150, closed	-	-	-	0,16	65094	-

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

DACHFIX®STEEL 115

Further accessories

Height adjusting set
DACHFIX STEEL 115, type 45
(2 pieces per metre required)

Cross-intersection
channel

Connector galvanised /
stainless steel
for DACHFIX STEEL 115

Screw socket
DN/OD 75, grey

Screw socket
DN/OD 100, grey

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Height adjusting set DACHFIX STEEL 115, type 45 (2 pieces per metre required)	45	108	36	0,17	65550	65551
Height adjusting set DACHFIX STEEL 115, type 75,100,150 (2 pieces per metre required)	45	108	56	0,19	65570	65571
Cross-intersection channel	1000	70	30	0,70	60800	60801
Connector galvanised / stainless steel for DACHFIX STEEL 115	-	-	-	0,05	61075	61275
Locking handle set with bolt for mesh grating galvanised / stainless steel (2 sets per metre required)	-	-	-	0,06	65592	65593
Locking handle set with bolt for perforated grating and slotted grating (2 sets per metre required)	-	-	-	0,06	65595	65596
Locking handle set with bolt for longitudinal grating galvanised / stainless steel (2 sets per metre required)	-	-	-	0,05	65598	65599
Locking handle set with bolt for mesh grating and longitudinal grating made of PP (2 sets per metre required)	-	-	-	0,05	69143	-
Screw socket DN/OD 75, grey	-	-	50	0,05	1187	-
Screw socket DN/OD 100, grey	-	-	-	0,07	1185	-
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193	-
Adaptor for screw socket (without sealing ring) DN/OD 100 to PVC-U pipe DN/OD 110	-	-	-	0,10	1192	-
Leaf trap for screw socket DN/OD 75, grey, suitable for type 100 and type 150	-	-	-	0,01	1188	-
Leaf trap for screw socket DN/OD 100, grey, suitable for type 100 and type 150	-	-	-	0,02	1190	-

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

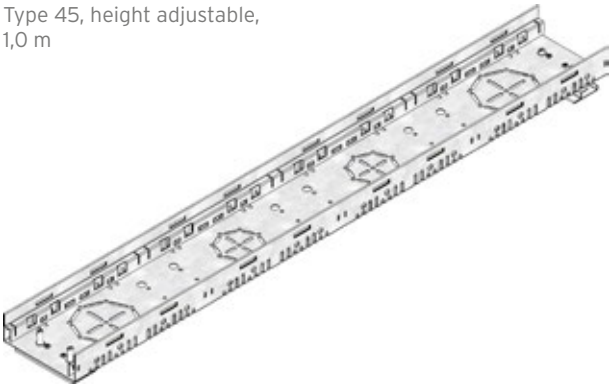
DACHFIX®STEEL 135

Channels

DACHFIX®STEEL 135, **height 45 mm**

Type 45, 1,0 m

Type 45, height adjustable, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 45, 1,0 m	1000	135	45	32	2,20	65100	65110
Type 45, height adjustable, 1,0 m	1000	135	59 - 74	32	2,54	65103	65113

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

DACHFIX®STEEL 135

DACHFIX®STEEL 135, **height 75 mm**

Type 75, 1,0 m

Type 75, height adjustable, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 75, 1,0 m	1000	135	75	71	2,79	65125	65135
Type 75, height adjustable, 1,0 m	1000	135	89 - 124	71	3,06	65128	65138

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

DACHFIX®STEEL 135

Channels

DACHFIX®STEEL 135, **height 100 mm**

Type 100, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 100, galvanised, 1,0 m	1000	135	100	103	4,96	65150	-
Type 100, height adjustable, 1,0 m	1000	135	114 - 149	103	5,33	65153	65163

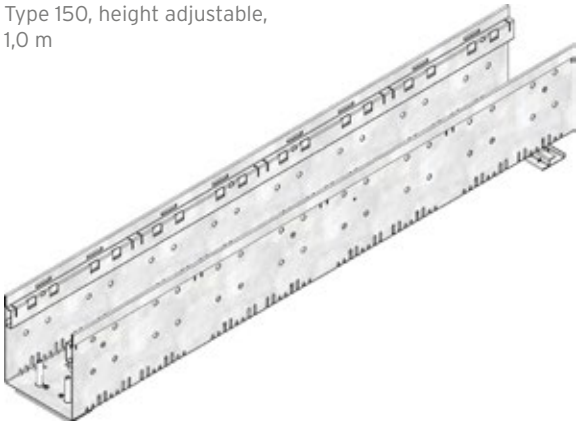
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 135

DACHFIX®STEEL 135, **height 150 mm**

Type 150, galvanised, 1,0 m

Type 150, height adjustable, 1,0 m



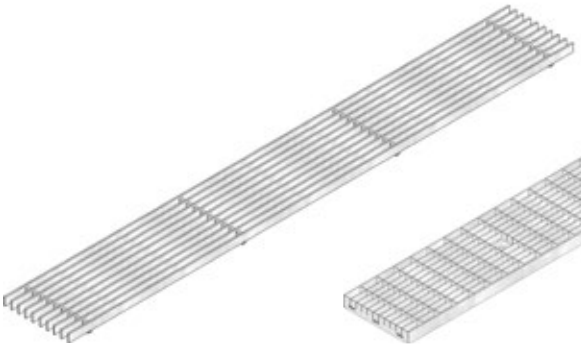
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 150, galvanised, 1,0 m	1000	135	150	169	6,10	65175	-
Type 150, height adjustable, 1,0 m	1000	135	164 - 199	169	6,53	65178	65188

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

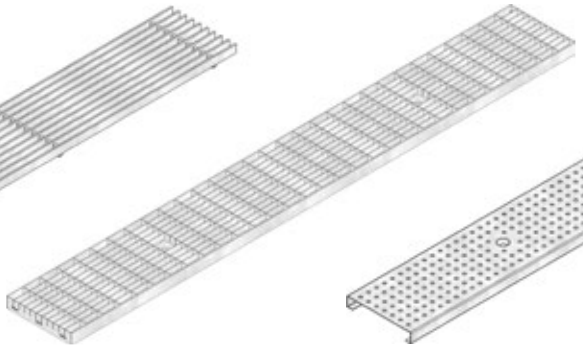
DACHFIX®STEEL 135

Gratings

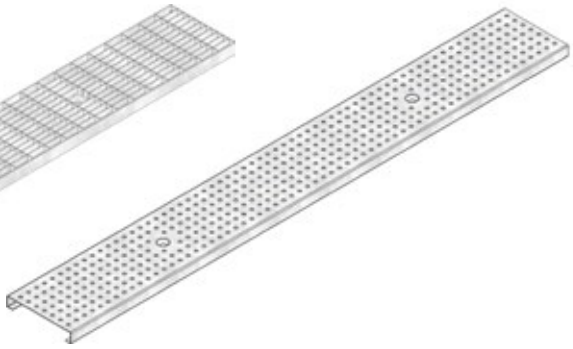
DACHFIX®STEEL 135



Longitudinal grating,
SW 11 mm, 1,0 m



Mesh grating
MW 30/10 mm, 1,0 m



Perforated grating,
1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Longitudinal grating, SW 11 mm, 1,0 m	1000	129	20	958	3,98	69047	69057
Mesh grating MW 30/10 mm, 1,0 m	1000	129	20	1055	2,31	69001	69011
Perforated grating, 1,0 m	1000	129	20	120	2,02	69035	69041

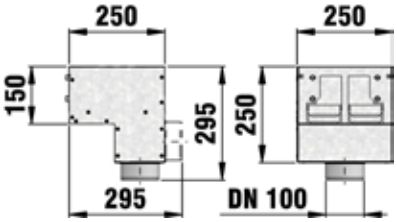
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 135

Accessories

Drain box, **base**

Drain box for type 100, 150
with paveable cover



	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Drain box for type 45,75	250	250	250	2,49	65500	65510
Drain box for type 100,150	250	250	250	2,57	65503	65513
Drain box for type 100, 150 with paveable cover	250	250	250	6,13	65505	65515
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

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

Drain box, **grating**

Slotted grating

Mesh grating,
MW 30/10 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating	242	242	20	116	1,07	60524	60534
Mesh grating, MW 30/10 mm	242	242	20	1704	1,20	60521	60531

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

DACHFIX®STEEL 135

Accessories

End caps

End cap type 75, closed

End cap type 150, closed

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap type 45, closed	-	-	-	0,06	65119	65120
End cap type 75, closed	-	-	-	0,10	65144	65145
End cap type 100, closed	-	-	-	0,14	65169	-
End cap type 150, closed	-	-	-	0,19	65194	-

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

DACHFIX®STEEL 135

Further accessories

Height adjusting set
DACHFIX STEEL 135, type 45
(2 pieces per metre required)

Cross-intersection
channel

Screw socket
DN/OD 75, grey

Screw socket
DN/OD 100, grey

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Height adjusting set DACHFIX STEEL 135, type 45 (2 pieces per metre required)	45	108	36	0,17	65553	65554
Height adjusting set DACHFIX STEEL 135, type 75,100,150 (2 pieces per metre required)	45	108	56	0,19	65573	65574
Cross-intersection channel	1000	70	30	0,70	60800	60801
Connector galvanised / stainless steel for DACHFIX STEEL135	-	-	-	0,06	65585	65586
Locking handle set with bolt for mesh grating (2 sets per metre required)	-	-	-	0,07	69100	69104
Locking handle set with bolt for perforated grating (2 sets per metre required)	-	-	-	0,07	69108	69112
Locking handle set with bolt for longitudinal grating (2 sets per metre required)	-	-	-	0,07	69116	69120
Screw socket DN/OD 75, grey	-	-	50	0,05	1187	-
Screw socket DN/OD 100, grey	-	-	-	0,07	1185	-
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193	-
Adaptor for screw socket (without sealing ring) DN/OD 100 to PVC-U pipe DN/OD 110	-	-	-	0,10	1192	-
Leaf trap for screw socket DN/OD 75, grey, suitable for type 100 and type 150	-	-	-	0,01	1188	-
Leaf trap for screw socket DN/OD 100, grey, suitable for type 100 and type 150	-	-	-	0,02	1190	-

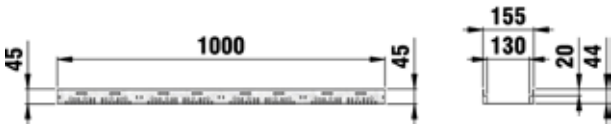
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 155

Channels

DACHFIX®STEEL 155, **height 45 mm**

Type 45, galvanised, 1,0 m



Type 45, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 45, galvanised, 1,0 m	1000	155	45	37	2,46	65200	65210
Type 45, height adjustable, galvanised, 1,0 m	1000	155	59 - 74	37	2,79	65203	-

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

DACHFIX®STEEL 155

DACHFIX®STEEL 155, **height 75 mm**

Type 75, galvanised, 1,0 m

Type 75, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 75, galvanised, 1,0 m	1000	155	75	83	2,95	65225	65235
Type 75, height adjustable, galvanised, 1,0 m	1000	155	89 - 124	83	3,32	65228	-

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

DACHFIX®STEEL 155

Channels

DACHFIX®STEEL 155, **height 100 mm**

Type 100, galvanised, 1,0 m

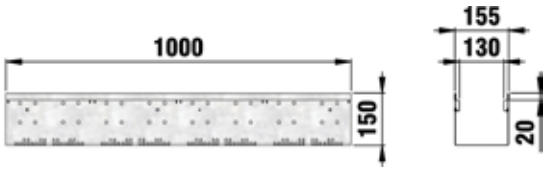
Type 100, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 100, galvanised, 1,0 m	1000	155	100	120	5,03	65250
Type 100, height adjustable, galvanised, 1,0 m	1000	155	114 - 149	120	5,57	65253

DACHFIX®STEEL 155

DACHFIX®STEEL 155, **height 150 mm**

Type 150, galvanised, 1,0 m

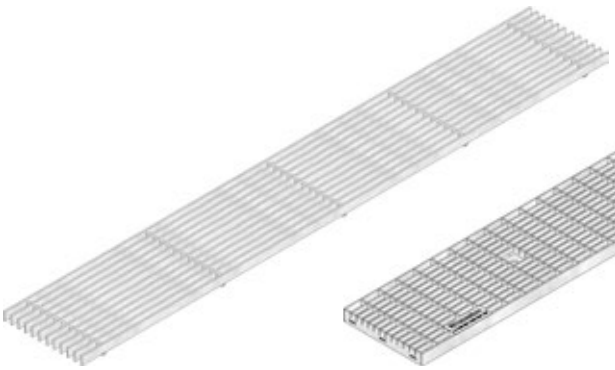


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 150, galvanised, 1,0 m	1000	155	150	196	6,25	65275
Type 150, height adjustable, galvanised, 1,0 m	1000	155	164 - 199	196	6,72	65278

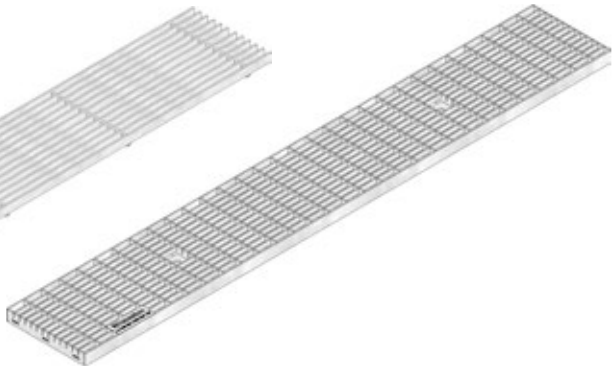
DACHFIX®STEEL 155

Gratings

DACHFIX®STEEL 155



Longitudinal grating SW 10 mm, 1,0 m



Mesh grating MW 30/10 mm, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
FIBRETEC design slotted grating, SW 9 mm, in the colour black, 0,5 m	500	149	20	372	1,05	69067	-
Longitudinal grating SW 10 mm, 1,0 m	1000	149	20	1099	4,91	69048	69058
Mesh grating MW 30/10 mm, 1,0 m	1000	149	20	1099	3,80	69002	69012
Perforated grating, 1,0 m	1000	149	20	99	5,20	69036	69042
Perforated grating, 0,5 m	500	149	20	99	2,60	69039	-
Perforated grating, 0,5 m	500	149	20	99	2,72	-	69045

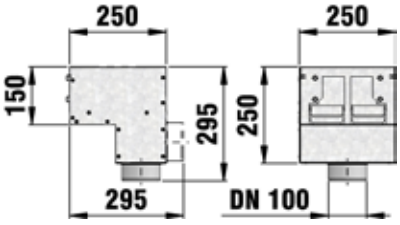
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 155

Accessories

Drain box, **base**

Drain box for type 100, 150
with paveable cover



	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Drain box for type 45,75	250	250	250	2,49	65500	65510
Drain box for type 100,150	250	250	250	2,57	65503	65513
Drain box for type 100, 150 with paveable cover	250	250	250	6,13	65505	65515
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

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

Drain box, **grating**

Slotted grating

Mesh grating,
MW 30/10 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating	242	242	20	116	1,07	60524	60534
Mesh grating, MW 30/10 mm	242	242	20	1704	1,20	60521	60531

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

DACHFIX®STEEL 155

Accessories

End caps

End cap type 45, closed, galvanised

End cap type 100, closed, galvanised

End cap type 150, closed, galvanised

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap type 45, closed, galvanised	-	-	-	0,08	65219	65220
End cap type 75, closed, galvanised	-	-	-	0,11	65244	65245
End cap type 100, closed, galvanised	-	-	-	0,14	65269	-
End cap type 150, closed, galvanised	-	-	-	0,20	65294	-

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

DACHFIX®STEEL 155

Further accessories

Height adjusting set
DACHFIX STEEL 155,
type 45, galvanised
(2 pieces per metre required)

Height adjusting set
DACHFIX STEEL 155,
type 75, 100, 150 galvanised
(2 pieces per metre required)

Cross-intersection
channel

Screw socket
DN/OD 75, grey

Screw socket
DN/OD 100, grey

	Length mm	Width mm	Height mm	Weight kg	Item No.
Height adjusting set DACHFIX STEEL 155, type 45, galvanised (2 pieces per metre required)	45	148	36	0,22	65556
Height adjusting set DACHFIX STEEL 155, type 75, 100, 150 galvanised (2 pieces per metre required)	45	148	56	0,23	65576
Cross-intersection channel	1000	70	30	0,70	60800
Connector galvanised / stainless steel for DACHFIX STEEL155	-	-	-	0,07	65587
Locking handle set with bolt for mesh grating, galvanised (2 sets per metre required)	-	-	-	0,08	69101
Locking handle set with bolt for longitudinal grating, galvanised (2 sets per metre required)	-	-	-	0,08	69117
Screw socket DN/OD 75, grey	-	-	50	0,05	1187
Screw socket DN/OD 100, grey	-	-	-	0,07	1185
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Adaptor for screw socket (without sealing ring) DN/OD 100 to PVC-U pipe DN/OD 110	-	-	-	0,10	1192
Leaf trap for screw socket DN/OD 75, grey, suitable for type 100 and type 150	-	-	-	0,01	1188
Leaf trap for screw socket DN/OD 100, grey, suitable for type 100 and type 150	-	-	-	0,02	1190

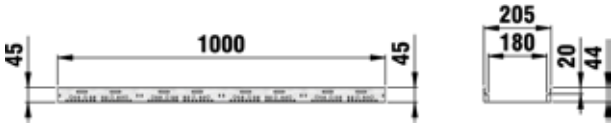
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 205

Channels

DACHFIX®STEEL 205, height 45 mm

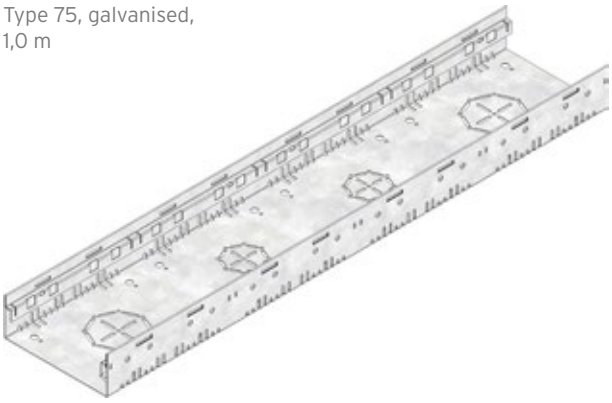
Type 45, galvanised, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 45, galvanised, 1,0 m	1000	205	45	49	2,75	65300
Type 45, height adjustable, galvanised, 1,0 m	1000	205	59 - 74	49	3,30	65303

DACHFIX®STEEL 205, height 75 mm

Type 75, galvanised, 1,0 m

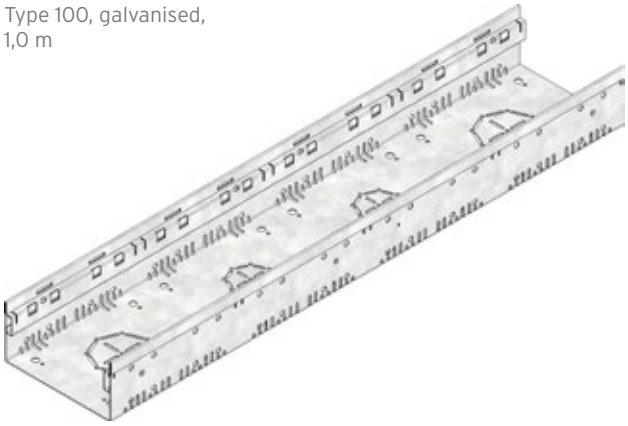


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 75, galvanised, 1,0 m	1000	205	75	110	3,25	65325
Type 75, height adjustable, galvanised, 1,0 m	1000	205	89 - 124	110	3,83	65328

DACHFIX®STEEL 205

DACHFIX®STEEL 205, **height 100 mm**

Type 100, galvanised, 1,0 m



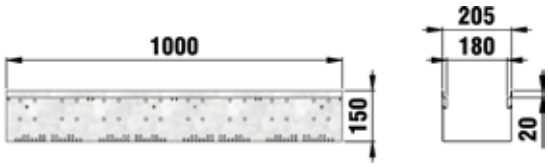
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 100, galvanised, 1,0 m	1000	205	100	159	5,75	65350
Type 100, height adjustable, galvanised, 1,0 m	1000	205	114 - 149	159	6,26	65353

DACHFIX®STEEL 205

Channels

DACHFIX®STEEL 205, **height 150 mm**

Type 150, galvanised, 1,0 m



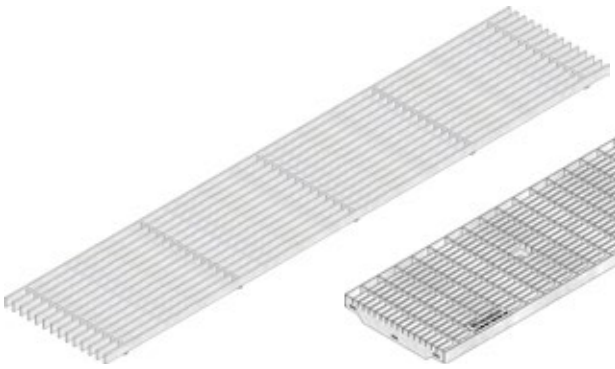
Type 150, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 150, galvanised, 1,0 m	1000	205	150	260	6,75	65375
Type 150, height adjustable, galvanised, 1,0 m	1000	205	164 - 199	260	7,44	65378

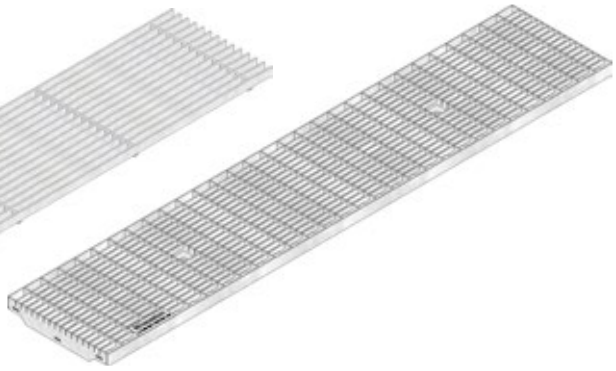
DACHFIX®STEEL 205

Gratings

DACHFIX®STEEL 205



Longitudinal grating SW 12 mm, galvanised, 1,0 m



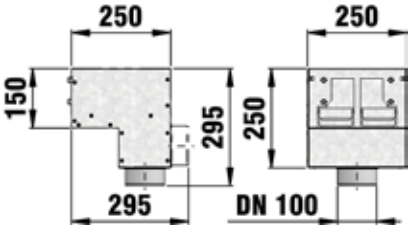
Mesh grating MW 30/10 mm, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Longitudinal grating SW 12 mm, galvanised, 1,0 m	1000	199	20	1528	5,83	69049
Mesh grating MW 30/10 mm, galvanised, 1,0 m	1000	199	20	1490	5,25	69003

Accessories

Drain box, **base**

Drain box for type 100, 150 with paveable cover



	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Drain box for type 45,75	250	250	250	2,49	65500	65510
Drain box for type 100,150	250	250	250	2,57	65503	65513
Drain box for type 100, 150 with paveable cover	250	250	250	6,13	65505	65515
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

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

DACHFIX®STEEL 205

Accessories

Drain box, **grating**

Slotted grating

Mesh grating,
MW 30/10 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating	242	242	20	116	1,07	60524	60534
Mesh grating, MW 30/10 mm	242	242	20	1704	1,20	60521	60531

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

End caps

End cap type 45,
closed, galvanised

End cap type 75,
closed, galvanised

End cap type 150,
closed, galvanised

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap type 45, closed, galvanised	-	-	-	0,10	65319
End cap type 75, closed, galvanised	-	-	-	0,15	65344
End cap type 100, closed, galvanised	-	-	-	0,19	65369
End cap type 150, closed, galvanised	-	-	-	0,26	65394

DACHFIX®STEEL 205

Further accessories

Height adjusting set DACHFIX STEEL 205, type 45, galvanised (2 pieces per metre required)

Cross-intersection channel

Screw socket DN/OD 75, grey

Screw socket DN/OD 100, grey

	Length mm	Width mm	Height mm	Weight kg	Item No.
Height adjusting set DACHFIX STEEL 205, type 45, galvanised (2 pieces per metre required)	45	198	36	0,28	65559
Height adjusting set DACHFIX STEEL 205, type 75,100,150, galvanised (2 pieces per metre required)	45	198	56	0,29	65579
Cross-intersection channel	1000	70	30	0,70	60800
Connector galvanised / stainless steel for DACHFIX STEEL 205	-	-	-	0,10	65589
Locking handle set with bolt for mesh grating, galvanised (2 sets per metre required)	-	-	-	0,11	69102
Locking handle set with bolt for longitudinal grating, galvanised (2 sets per metre required)	-	-	-	0,11	69118
Screw socket DN/OD 75, grey	-	-	50	0,05	1187
Screw socket DN/OD 100, grey	-	-	-	0,07	1185
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Adaptor for screw socket (without sealing ring) DN/OD 100 to PVC-U pipe DN/OD 110	-	-	-	0,10	1192
Leaf trap for screw socket DN/OD 75, grey, suitable for type 100 and type 150	-	-	-	0,01	1188
Leaf trap for screw socket DN/OD 100, grey, suitable for type 100 and type 150	-	-	-	0,02	1190

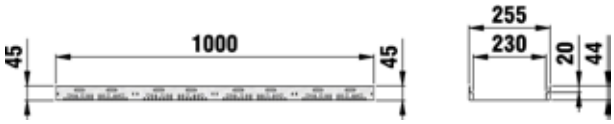
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

DACHFIX®STEEL 255

Channels

DACHFIX®STEEL 255, **height 45 mm**

Type 45, galvanised, 1,0 m



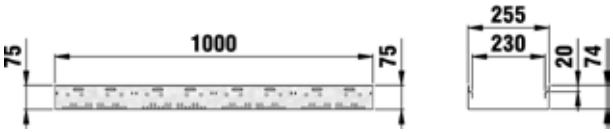
Type 45, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 45, galvanised, 1,0 m	1000	255	45	61	3,14	65400
Type 45, height adjustable, galvanised, 1,0 m	1000	255	59 - 74	61	3,80	65403

DACHFIX®STEEL 255

DACHFIX®STEEL 255, **height 75 mm**

Type 75, galvanised, 1,0 m



Type 75, height adjustable, galvanised, 1,0 m

	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 75, galvanised, 1,0 m	1000	255	75	137	3,74	65425
Type 75, height adjustable, galvanised, 1,0 m	1000	255	89 - 124	137	4,33	65428

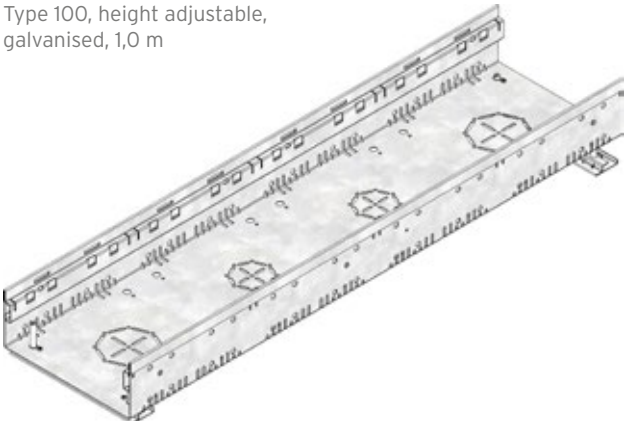
DACHFIX®STEEL 255

Channels

DACHFIX®STEEL 255, **height 100 mm**

Type 100, galvanised, 1,0 m

Type 100, height adjustable, galvanised, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 100, galvanised, 1,0 m	1000	255	100	198	6,24	65450
Type 100, height adjustable, galvanised, 1,0 m	1000	255	114 - 149	198	6,93	65453

DACHFIX®STEEL 255

DACHFIX®STEEL 255, **height 150 mm**

Type 150, galvanised, 1,0 m

Type 150, height adjustable, galvanised, 1,0 m

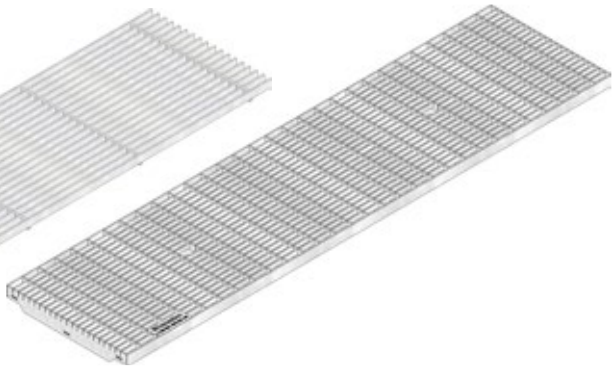
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 150, galvanised, 1,0 m	1000	255	150	324	7,49	65475
Type 150, height adjustable, galvanised, 1,0 m	1000	255	164 - 199	324	8,17	65478

DACHFIX®STEEL 255

Gratings

DACHFIX®STEEL 255

Longitudinal grating SW 11 mm, 1,0 m



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

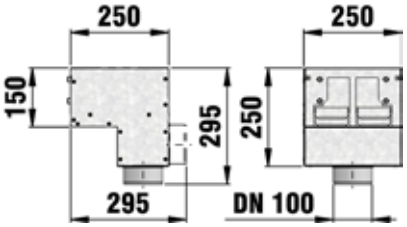
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item No.
Longitudinal grating SW 11 mm, 1,0 m	1000	249	20	1898	7,55	69050
Mesh grating MW 30/10 mm, galvanised, 1,0 m	1000	249	20	1873	7,30	69004

DACHFIX®STEEL 255

Accessories

Drain box, **base**

Drain box for type 100, 150
with paveable cover



	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Drain box for type 45,75	250	250	250	2,49	65500	65510
Drain box for type 100,150	250	250	250	2,57	65503	65513
Drain box for type 100, 150 with paveable cover	250	250	250	6,13	65505	65515
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

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

Drain box, **grating**

Slotted grating

Mesh grating,
MW 30/10 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Slotted grating	242	242	20	116	1,07	60524	60534
Mesh grating, MW 30/10 mm	242	242	20	1704	1,20	60521	60531

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

DACHFIX®STEEL 255

Accessories

End caps

End cap type 45, closed, galvanised

End cap type 75, closed, galvanised

End cap type 150, closed, galvanised

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap type 45, closed, galvanised	-	-	-	0,12	65419
End cap type 75, closed, galvanised	-	-	-	0,18	65444
End cap type 100, closed, galvanised	-	-	-	0,26	65469
End cap type 150, closed, galvanised	-	-	-	0,36	65494

DACHFIX®STEEL 255

Further accessories

Height adjusting set
DACHFIX STEEL 255,
type 45, galvanised
(2 pieces per metre required)

Height adjusting set
DACHFIX STEEL 255,
type 75, 100, 150, galvanised
(2 pieces per metre required)

Cross-intersection
channel

Screw socket
DN/OD 75, grey

Screw socket
DN/OD 100, grey

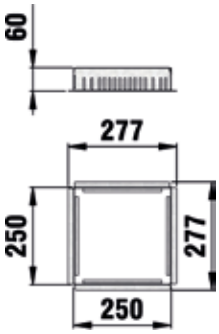
	Length mm	Width mm	Height mm	Weight kg	Item No.
Height adjusting set DACHFIX STEEL 255, type 45, galvanised (2 pieces per metre required)	45	248	36	0,33	65562
Height adjusting set DACHFIX STEEL 255, type 75, 100, 150, galvanised (2 pieces per metre required)	45	248	56	0,35	65582
Cross-intersection channel	1000	70	30	0,70	60800
Connector galvanised / stainless steel for DACHFIX STEEL 255	-	-	-	0,12	60415
Locking handle set with bolt for mesh grating, galvanised (2 sets per metre required)	-	-	-	0,13	69103
Locking handle set with bolt for longitudinal grating (2 sets per metre required)	-	-	-	0,13	69119
Screw socket DN/OD 75, grey	-	-	50	0,05	1187
Screw socket DN/OD 100, grey	-	-	-	0,07	1185
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Adaptor for screw socket (without sealing ring) DN/OD 100 to PVC-U pipe DN/OD 110	-	-	-	0,10	1192
Leaf trap for screw socket DN/OD 75, grey, suitable for type 100 and type 150	-	-	-	0,01	1188
Leaf trap for screw socket DN/OD 100, grey, suitable for type 100 and type 150	-	-	-	0,02	1190

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

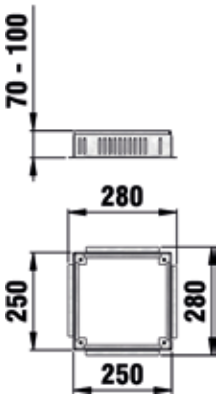
DACHFIX®POINT

DACHFIX®POINT Type 25 x 25

Gully extension type 25 x 25
with slotted grating, height 60 mm,
galvanised



Gully extension type 25 x 25
with slotted grating, height adjustable,
galvanised



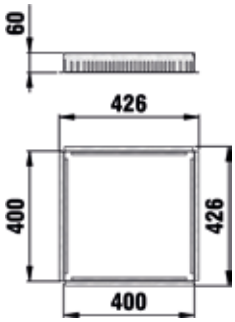
	Length mm	Width mm	Height mm	Weight kg	Item No.
Gully extension type 25 x 25 with slotted grating, height 60 mm, galvanised	250	250	60	1,70	60620
Gully extension type 25 x 25 with mesh grating, MW 30/10 mm, height 60 mm, galvanised	250	250	60	1,4←0	60610
Gully extension type 25 x 25 with slotted grating, height adjustable, galvanised	250	250	70 - 100	4,27	60542
Gully extension type 25 x 25 with mesh grating, MW 30/10 mm, height adjustable, galvanised	250	250	70 - 100	4,00	60541

DACHFIX POINT gullies are walkable and wheelchair passable.
All DACHFIX POINT are also available as tailor-made solutions in stainless steel CNS 1.4301, but with longer delivery times.

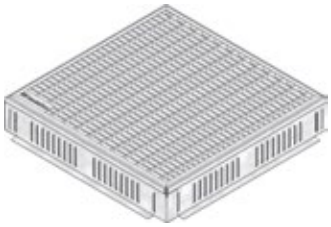
DACHFIX®POINT

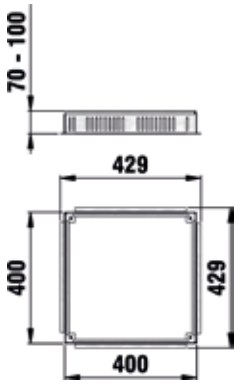
DACHFIX®POINT Type 40 x 40

Gully extension type 40 x 40
with mesh grating, MW 30/10 mm,
height 60 mm, galvanised



Gully extension type 40 x 40
with mesh grating, MW 30/10 mm,
height adjustable, galvanised





	Length mm	Width mm	Height mm	Weight kg	Item No.
Gully extension type 40 x 40 with mesh grating, MW 30/10 mm, height 60 mm, galvanised	400	400	60	5,70	60640
Gully extension type 40 x 40 with mesh grating, MW 30/10 mm, height adjustable, galvanised	400	400	70 - 100	7,20	60591

DACHFIX POINT gullies are walkable and wheelchair passable.
All DACHFIX POINT are also available as tailor-made solutions in stainless steel CNS 1.4301, but with longer delivery times.

SLOTTED CHANNELS

SLOTTED CHANNELS for design-sensitive applications.

Killesberghöhe in Stuttgart, Germany

SLOTTED CHANNELS

SLOTTED CHANNELS for design-sensitive applications.

1 Requirements

For the drainage of areas with architectural demands

- the surface drainage has to be discreetly hidden
- processing of all standard surface layers and stone slabs should be possible
- the surface water needs to be drained reliably

2 Application areas

- for areas and facades with high optical demands
- especially in public and commercial areas

3 Solutions

Therefore SLOTTED CHANNELS are suitable for the drainage of areas with architectural demands:

- only with the visible slot (narrow line) on the surface the clear elegance and significance is reached
- for all common surface layers and even asphalt
- allows to design a project in an uniform design
- functional requirements are completely met
- easy access to channel run through access cover
- slotted gratings made of galvanised or stainless steel

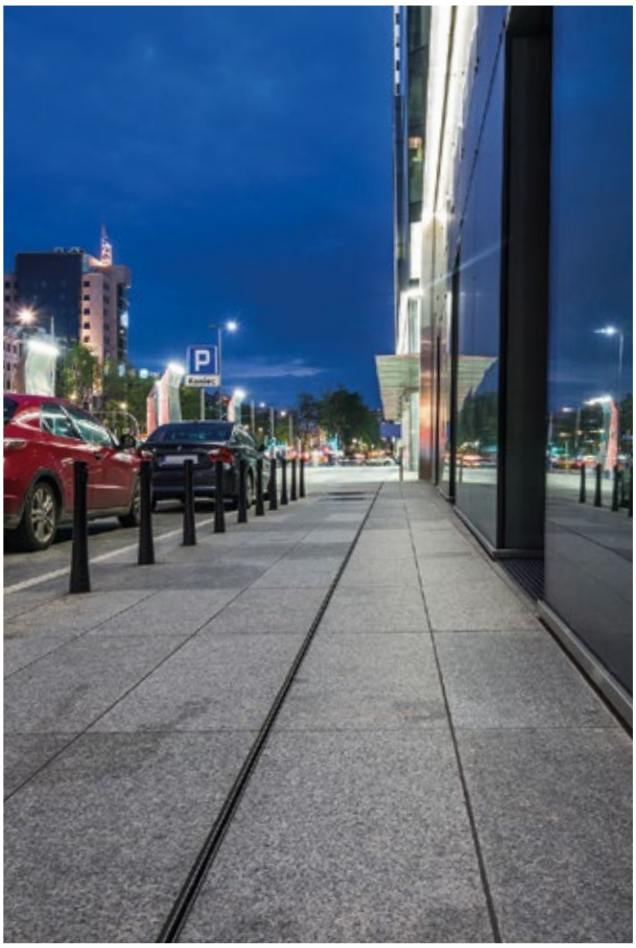
Shopping center Atoll Angers Beaucouzé, France

Office building in Müllheim, Germany

Phoenix Sea in Dortmund, Germany

Kocherquartier, Schwäbisch Hall, Germany

Town hall square in Esch-sur-Alzette, France



Office building in Warsaw, Poland

YOUR BENEFITS WITH
SLOTTED CHANNELS

DIVERSE AND VARIABLE SOLUTIONS

- channels and covers can be combined in various ways
- slot covers made of galvanised or stainless steel (several stainless steel qualities)
- individual slot covers with numerous neck heights for different load classes
- a duo slotted cover with 2 x 6 mm slot width for class C 250
- many channel systems, also with built-in fall, can be used
- the channel bodies of the **FASERFIX** KS and **RECYFIX** PRO systems offer
  → optimised water inlet into the channel body
  → locking option if required

= DESIGN FLEXIBILITY

SEPARATE END CAP FOR SLOTTED COVER

- prevents bedding material from trickling into the channel
- freely positionable if required

= PERFORMANCE ASSURED

HIGH COVER STABILITY

- constructive reinforcements under the cover and the thickness of the material ensure a high quality → perfect balance between weight and stability
- class E 600: material thickness 4 mm
- extremely dimensionally stable → slot on the surface resistant to mechanical influences
- surface water is reliably drained
- the use of pure materials guarantees corrosion protection and the recyclability of the individual components

= LONGEVITY / PERFORMANCE ASSURED

ATTRACTIVE DRAINAGE SOLUTION

- sophisticated drainage line blends harmoniously into the architecture of the site - slot widths 10 - 18 mm for classes A 15, C 250, D 400 and E 600

= UNIQUENESS

HIGH-LEVEL FUNCTIONALITY AND EASY INSTALLATION

- easy handling and installation
- removable access covers → quick access to the channel run for maintenance and cleaning
- integrated tongue and groove connection of the channels **and** covers - simple installation without complicated alignment
- permanently straight slot without waviness or misalignment

= TIME & COST SAVINGS

CONNECTION POSSIBILITIES

- simple production of corner connections
- access covers, can be positioned as required, fit on channels and trash boxes
- access covers with pavable cover - all common surfaces and stone slabs possible

= DESIGN FLEXIBILITY

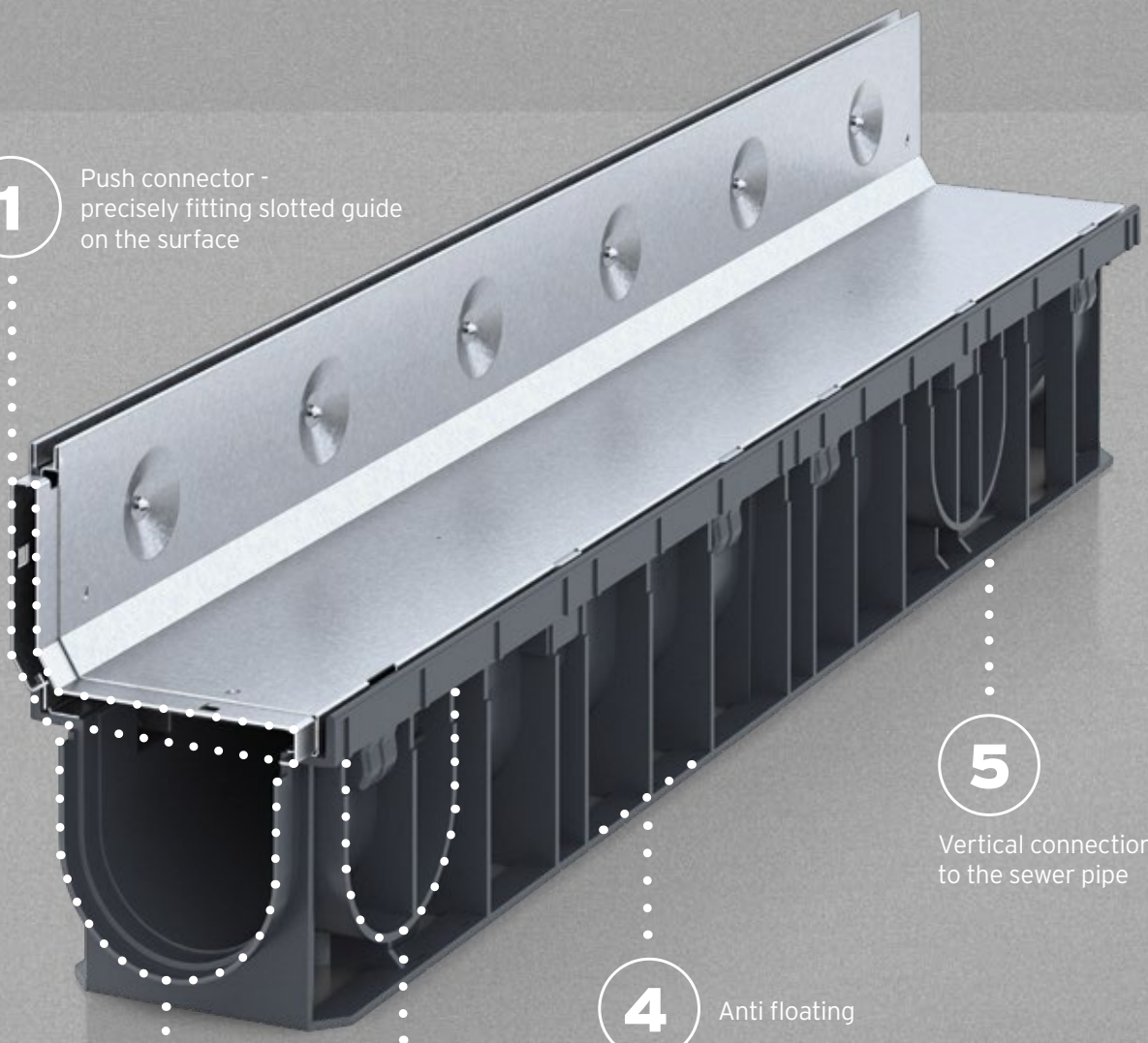
UNIQUE CONNECTION TECHNOLOGY

- interlocking connection at the joints of the cover (push connector)
  → ideal connection for aligned installation
  → prevents bedding material from trickling into the channel
- high stability through additional strengthening of the neck in the joint area
- compensation of installation tolerances and material expansion with push connector
- removable, e.g. to be able to attach end caps

= PERFORMANCE ASSURED / TIME & COST SAVINGS

IDEAL FOR ...

design-sensitive applications, such as areas and facades with high optical demands especially in public and commercial areas.



1 Push connector - precisely fitting slotted guide on the surface

2 Integrated tongue and groove connection of the channels and covers - easy and fast installation. Channel sealable according to DIN EN 1433

3 Corner and T-connections

4 Anti floating

5 Vertical connection to the sewer pipe

SLOTTED CHANNELS

SLOTTED CHANNELS for design-sensitive applications.

World champion surface drainage for German football.

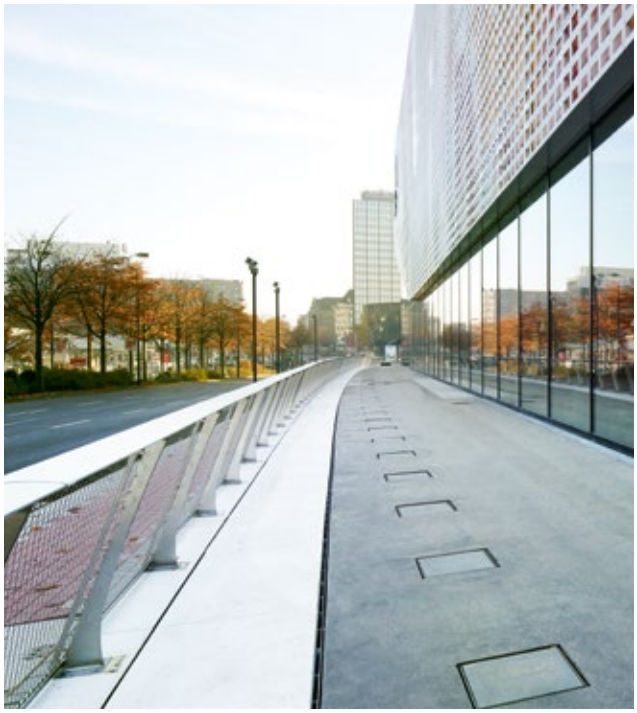
FASERFIX SLOTTED CHANNELS

DFB Football Museum in Dortmund with a modern drainage system. The impressive architecture shows that the theme of football is given a central place with this museum in the urban backdrop of Dortmund. The overall architectural concept of the architects of HPP Hentrich-Petschnigg & Partner placed high demands on the individual components in advance, also for the drainage technology installed. For this area, slotted channels were planned from the very beginning. Running underground, they integrate themselves into the overall visual impression.

The efficiency of this channel:

- FASERFIX STANDARD 150 Channels: stable and secure
- Slotted Cover:
  - Class D 400: ideally suited for high traffic loads
  - Material: galvanised steel
  - Optics blend harmoniously into the appearence of the area
- Trash boxes with visually unobtrusive inspection chambers for access to the channel run

DFB Football Museum in Dortmund, Germany



SLOTTED CHANNELS

SLOTTED CHANNELS for design-sensitive applications.

SLOTTED CHANNELS meet the requirements of DIN EN 1433 and are suitable for the following load categories:

Category A 15, Load class 15 kN
Trafficked areas, which are exclusively used by pedestrians and cyclists

Category B 125, Load class 125 kN
Sidewalks, pedestrian areas and comparable areas, car parks or car parking decks

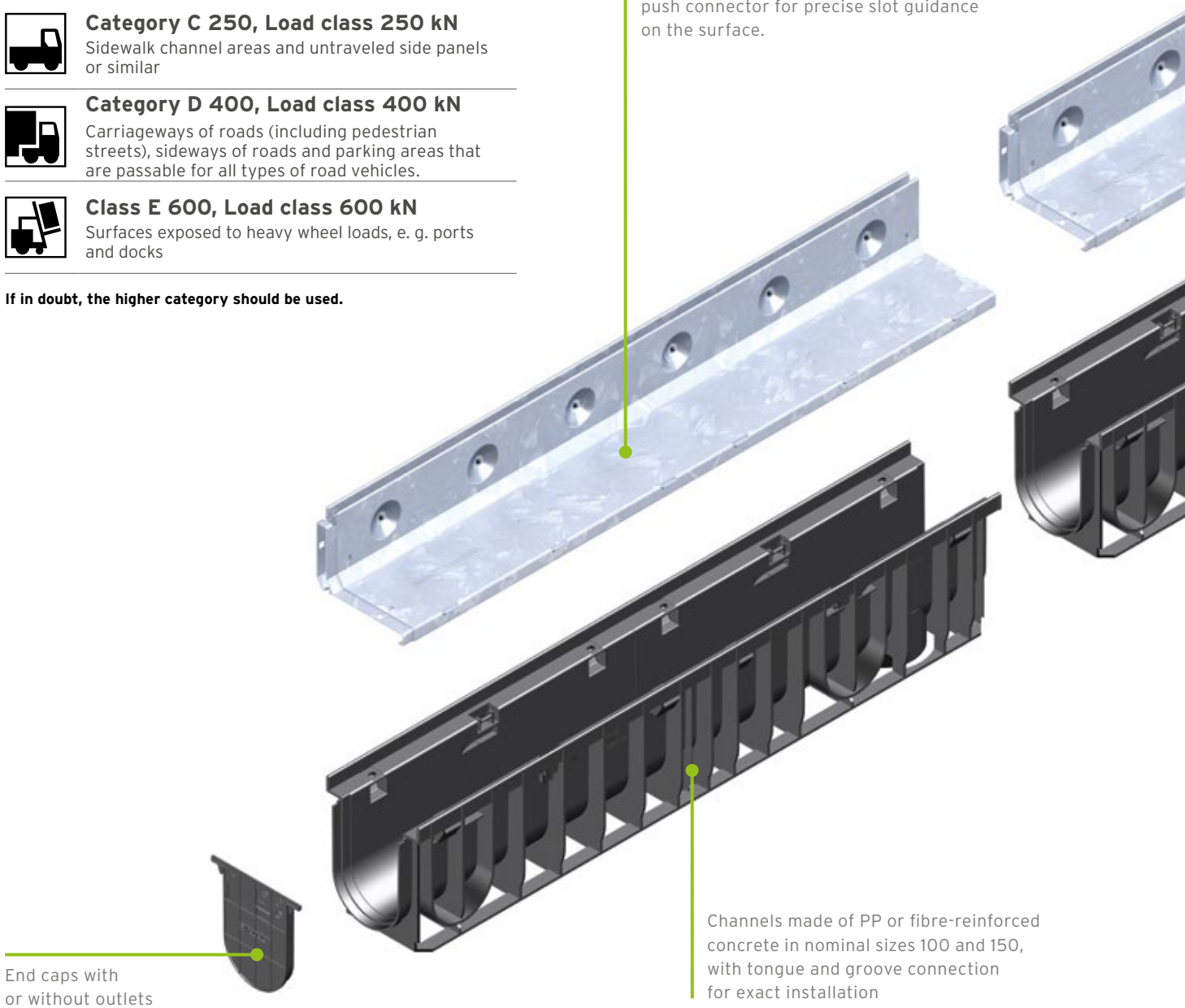
Category C 250, Load class 250 kN
Sidewalk channel areas and untraveled side panels or similar

Category D 400, Load class 400 kN
Carriageways of roads (including pedestrian streets), sideways of roads and parking areas that are passable for all types of road vehicles.

Class E 600, Load class 600 kN
Surfaces exposed to heavy wheel loads, e. g. ports and docks

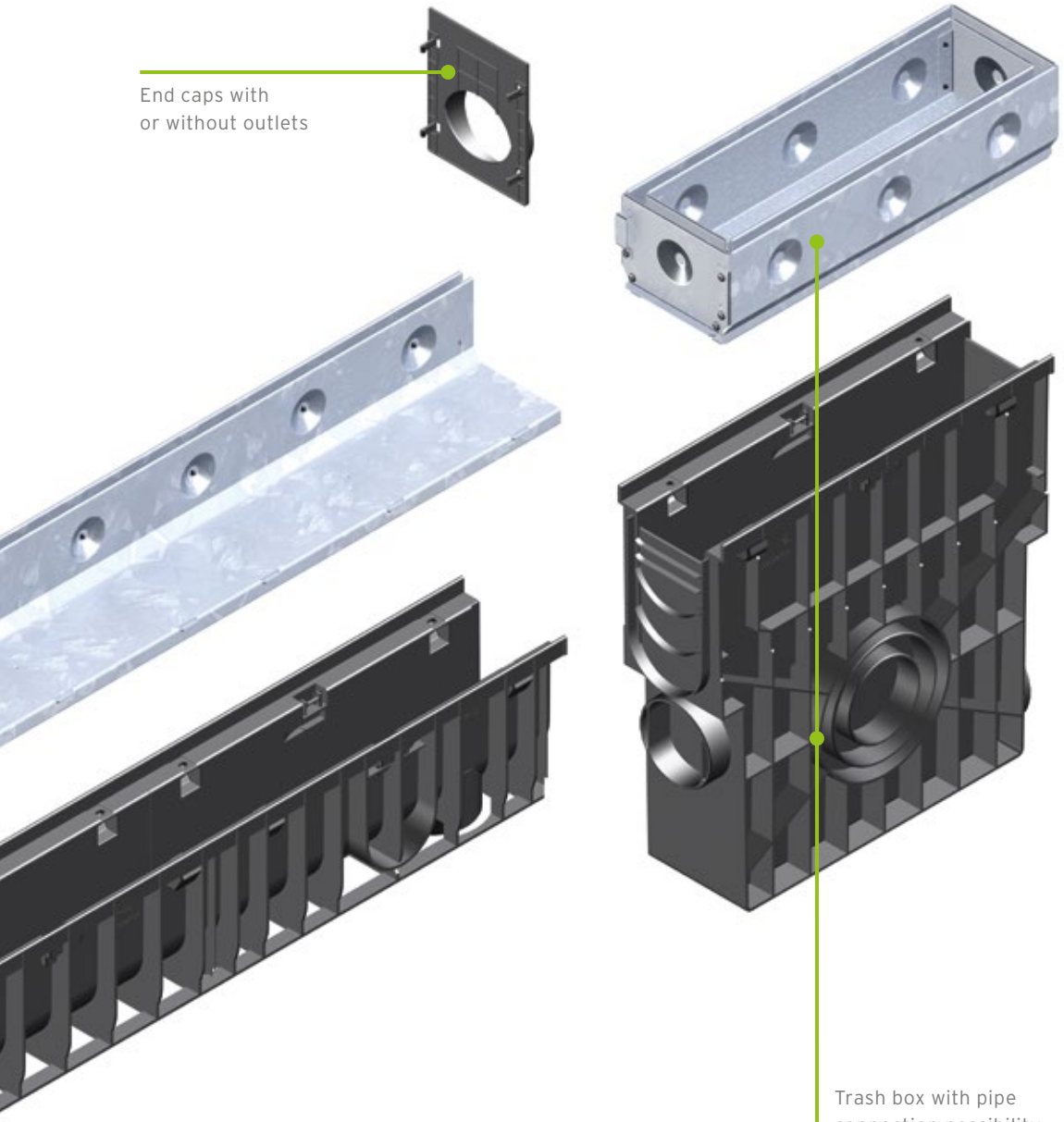
If in doubt, the higher category should be used.

Asymmetrical covers made of galvanised or stainless steel. With integrated push connector for precise slot guidance on the surface.

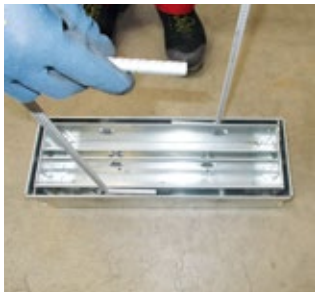


Channels made of PP or fibre-reinforced concrete in nominal sizes 100 and 150, with tongue and groove connection for exact installation

End caps with or without outlets



Easy opening of access cover by means of extraction bail

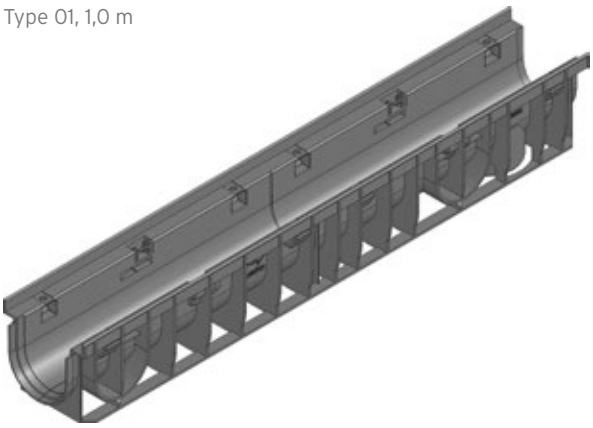


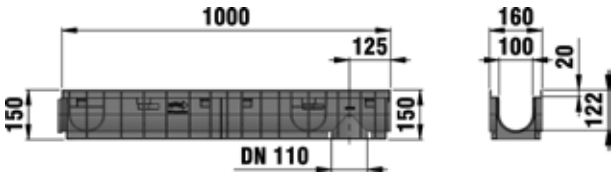
SLOTTED CHANNEL 100

Channels

RECYFIX®PRO 100

Type 01, 1,0 m

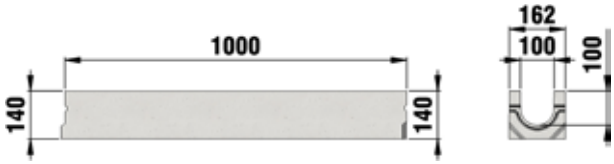




	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	160	150	92	2,16	48600
Type 0105, 0,5 m	500	160	150	92	1,02	48649
Type 010, 1,0 m	1000	160	200	142	2,67	48642
Type 01005, 0,5 m	500	160	200	142	1,34	48650
Type 020, 1,0 m	1000	160	250	192	3,57	48620
Type 02005, 0,5 m	500	160	250	192	1,79	48629
Type 75, 1,0 m	1000	160	75	35	1,17	47030
Type 95, 1,0 m	1000	160	95	55	1,57	47031

FASERFIX®STANDARD E 100

Type 01, 1,0 m



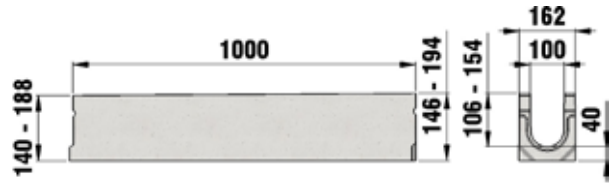
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	162	140	89	31,99	6200
Type 0105, 0,5 m	500	162	140	89	15,00	6249
Type 01L with hole, 1,0 m*	1000	162	140	89	30,00	6300
Type 010, 1,0 m	1000	162	194	143	38,40	6242
Type 010L with hole, 1,0 m*	1000	162	194	143	39,45	6342

*** Position of the opening to the bottom of the channel. 100 mm from the centre of the hole (DN/OD 110) to the end of the channel.**

SLOTTED CHANNEL 100

FASERFIX®STANDARD E 100 with built-in fall 0.6 %

Type 1, 1,0 m



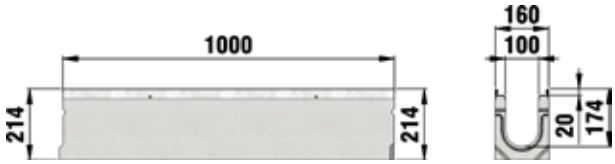
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 1, 1,0 m	1000	162	140 - 146	89	32,77	6201
Type 2, 1,0 m	1000	162	146 - 152	95	32,85	6202
Type 3, 1,0 m	1000	162	152 - 158	101	33,83	6203
Type 4, 1,0 m	1000	162	158 - 164	107	35,07	6204
Type 5, 1,0 m	1000	162	164 - 170	113	35,21	6205
Type 6, 1,0 m	1000	162	170 - 176	119	35,30	6206
Type 7, 1,0 m	1000	162	176 - 182	125	36,49	6207
Type 8, 1,0 m	1000	162	182 - 188	131	38,00	6208
Type 9, 1,0 m	1000	162	188 - 194	137	38,40	6209

SLOTTED CHANNEL 100

Channels

FASERFIX®KS 100

Type 010, 1,0 m



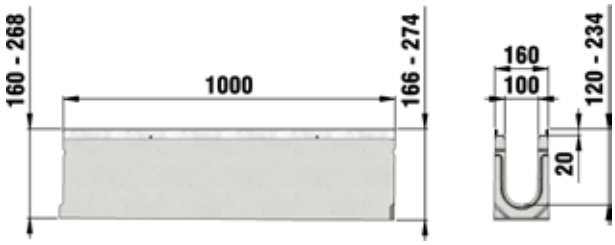
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01, 1,0 m	1000	160	160	88	32,96	8000	8200
Type 0105, 0,5 m	500	160	160	88	16,51	8049	8249
Type 01L with hole DN/OD 110, 1,0 m*	1000	160	160	88	32,20	8045	-
Type 05, 1,0 m	1000	160	184	113	36,31	8041	-
Type 05L with hole, DN/OD 110, 1,0 m*	1000	160	184	113	35,37	8035	-
Type 010, 1,0 m	1000	160	214	143	40,21	8042	8242
Type 01005, 0,5 m	500	160	214	143	21,50	8050	-
Type 010L with hole DN/OD 110, 1,0 m*	1000	160	214	143	39,00	8046	-
Type 015, 1,0 m	1000	160	244	173	45,34	8043	8243
Type 015L with hole, DN/OD 110, 1,0 m*	1000	160	244	173	45,00	8036	-
Type 020, 1,0 m	1000	160	274	206	49,00	8044	8244
Type 020L with hole, DN/OD 110, 1,0 m*	1000	160	274	206	48,00	8037	-
Type 80 flat channel, 1,0 m	1000	160	80	34	15,98	1106	-
Type 100 flat channel, 1,0 m	1000	160	100	54	19,23	1108	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Position of the opening to the bottom of the channel. 100 mm from the centre of the hole (DN/OD 110) to the end of the channel.**

SLOTTED CHANNEL 100

FASERFIX®KS 100 with built-in fall 0.6 %

Type 1, 1,0 m



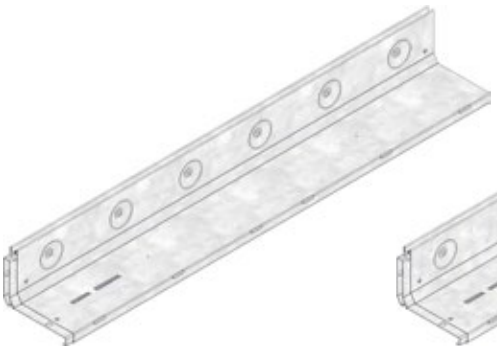
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 1, 1,0 m	1000	160	160 - 166	89	33,03	8001	8201
Type 2, 1,0 m	1000	160	166 - 172	95	34,09	8002	8202
Type 3, 1,0 m	1000	160	172 - 178	101	34,68	8003	8203
Type 4, 1,0 m	1000	160	178 - 184	107	35,61	8004	8204
Type 5, 1,0 m	1000	160	184 - 190	113	36,77	8005	8205
Type 6, 1,0 m	1000	160	190 - 196	119	37,16	8006	8206
Type 7, 1,0 m	1000	160	196 - 202	125	37,90	8007	8207
Type 8, 1,0 m	1000	160	202 - 208	131	38,91	8008	8208
Type 9, 1,0 m	1000	160	208 - 214	137	39,46	8009	8209
Type 10, 1,0 m	1000	160	214 - 220	143	39,99	8010	8210
Type 11, 1,0 m	1000	160	220 - 226	149	42,21	8011	8211
Type 12, 1,0 m	1000	160	226 - 232	155	43,47	8012	8212
Type 13, 1,0 m	1000	160	232 - 238	161	43,99	8013	8213
Type 14, 1,0 m	1000	160	238 - 244	167	44,98	8014	8214
Type 15, 1,0 m	1000	160	244 - 250	173	45,00	8015	8215
Type 16, 1,0 m	1000	160	250 - 256	179	45,48	8016	8216
Type 17, 1,0 m	1000	160	256 - 262	185	46,80	8017	8217
Type 18, 1,0 m	1000	160	262 - 268	191	47,67	8018	8218
Type 19, 1,0 m	1000	160	268 - 274	197	48,00	8019	8219

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

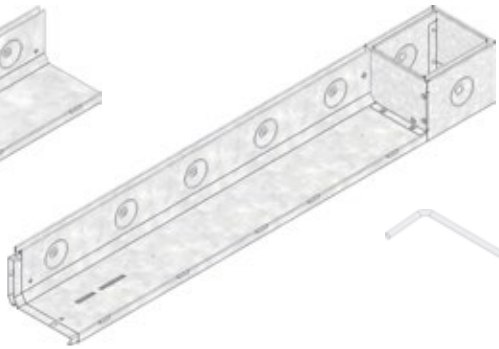
SLOTTED CHANNEL 100

Gratings

SLOTTED COVERS 100, neck height 105 mm, **class A 15**



Asymmetrical SW 10 mm, 1,0 m



Asymmetrical, with integrated access cover right, SW 10 mm, 1,0 m

Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 10 mm, 1,0 m	1000	155	125	100	4,71	32245	32246
Asymmetrical SW 10 mm, 0,5 m	500	155	125	100	2,42	32275	32276
Asymmetrical, with integrated access cover right, SW 10 mm, 1,0 m	1000	153	125	1000	155	32295	32296
Asymmetrical, with integrated access cover left, SW 10 mm, 1,0 m	1000	155	125	120	5,49	32796	32797
Acess cover asymmetrical, SW 10 mm, 0,5 m	500	163	125	3,75	3,75	32301	32302
End cap, closed	-	288	123	0,12	0,12	32836	32837
Sludge trap inlay, for slotted cover SW 10 mm, 1,0 m	1000	10	39	0,41	0,41	32846	32847
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	0,12	32850	-

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

SLOTTED CHANNEL 100

NEW SLOTTED COVERS 100 with removable center bar, neck height 160 mm, class C 250

Asymmetrical, duo slot with removable center bar SW 2 x 12,5 mm, 1,0 m

Access cover asymmetrical for duo slot with removable center bar SW 2 x 12,5 mm, 0,5 m

End cap for duo slot with removable center bar

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical, duo slot with removable center bar SW 2 x 12,5 mm, 0,5 m	500	149	180	250	4,67	72109	72108
Asymmetrical, duo slot with removable center bar SW 2 x 12,5 mm, 1,0 m	1000	149	180	250	8,54	72111	72110
Access cover asymmetrical for duo slot with removable center bar SW 2 x 12,5 mm, 0,5 m	500	149	180	8,14	8,14	72117	72116
End cap for duo slot with removable center bar	-	258	179	0,16	0,16	72119	72118

SLOTTED CHANNEL 100

Gratings

SLOTTED COVERS 100, neck height 105 mm, class C 250

Asymmetrical SW 12 mm, 1,0 m

Asymmetrical, duo slot, SW 2 x 6 mm, 1,0 m

End cap, closed

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 12 mm, 1,0 m	1000	156	126	120	6,02	32247	32248
Asymmetrical SW 12 mm, 0,5 m	500	156	126	120	3,19	32277	32278
Access cover asymmetrical, SW 12 mm, 0,5 m	500	163	126	5,22	5,22	32303	32304
Asymmetrical, duo slot, SW 2 x 6 mm, 1,0 m	1000	156	126	120	8,31	32253	32254
Asymmetrical, duo slot, SW 2 x 6 mm, 0,5 m	500	156	126	120	4,20	32283	32284
Access cover asymmetrical, duo slot, SW 2 x 6 mm, 0,5 m	500	163	125	6,71	6,71	32746	32747
End cap, closed	-	284	124	0,13	0,13	32838	32839
Sludge trap inlay, for slotted cover SW 12 mm, 1,0 m	1000	12	37	0,41	0,41	32848	32849
End cap for duo slot, closed	-	279	124	0,13	0,13	32844	32845
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	0,12	32850	-

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

SLOTTED CHANNEL 100

SLOTTED COVERS 100, neck height 160 mm, **class C 250**

Asymmetrical SW 12 mm, 1,0 m

End cap, closed

Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 12 mm, 1,0 m	1000	156	181	120	7,24	32249	32250
Asymmetrical SW 12 mm, 0,5 m	500	156	181	120	3,84	32279	32280
Acess cover asymmetrical, SW 12 mm, 0,5 m	500	163	181	6,88	6,88	32305	32306
End cap, closed	-	384	179	0,17	0,17	32840	32841
Sludge trap inlay, for slotted cover SW 12 mm, 1,0 m	1000	12	37	0,41	0,41	32848	32849
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

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

SLOTTED CHANNEL 100

Gratings

SLOTTED COVERS 100, neck height 200 mm, class D 400*

Asymmetrical SW 14 mm, 1,0 m

Acess cover asymmetrical, SW 14 mm, 0,5 m

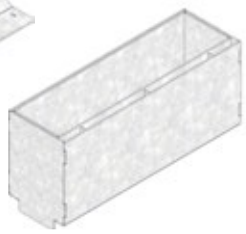
Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 14 mm, 1,0 m	1000	156	222	140	10,68	32251	32252
Asymmetrical SW 14 mm, 0,5 m	500	156	222	140	5,47	32281	32282
Acess cover asymmetrical, SW 14 mm, 0,5 m	500	163	222	10,41	10,41	32307	32308
End cap, closed	-	380	219	0,19	0,19	32842	32843
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

*** Not for use across the carriageway of highways or motorways in moving traffic.**
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

SLOTTED COVERS 100, neck height 200 mm, class E 600*

Asymmetrical SW 18 mm, 1,0 m



Acess cover asymmetrical, SW 18 mm, 0,5 m

Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 18 mm, 1,0 m	1000	160	204	180	18,96	32816	32817
Asymmetrical SW 18 mm, 0,5 m	500	160	204	180	9,42	32818	32819
Acess cover asymmetrical, SW 18 mm, 0,5 m	500	160	204	18,87	18,87	32824	32825
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

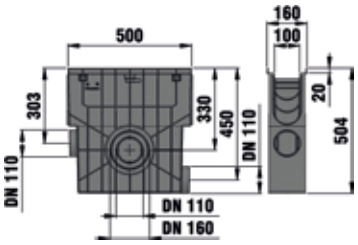
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Only to be used in combination with FASERFIX STANDARD channels**

SLOTTED CHANNEL 100

Accessories

RECYFIX®PRO 100

Trash box
with PE mud bucket



End cap closed
for type 01

End cap made of PP
with outlet DN/OD 110,
type 01

Foul air trap for RECYFIX
trash box 100

Foul air trap, vertical,
DN/OD 110

Foul air trap set,
vertical DN/OD 110
for RECYFIX 100

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

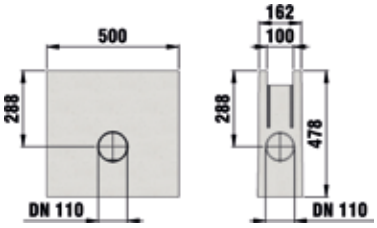
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with PE mud bucket	500	160	504	4,38	48652
End cap closed for type 01	-	160	124	0,04	48681
End cap made of PP with outlet DN/OD 110, type 01	-	160	201	0,08	48691
End cap closed for type 010	-	160	176	0,05	47082
End cap made of PP with outlet DN/OD 110,type 010	-	160	201	0,11	47093
End cap made of PP, type 020	-	160	250	0,12	48683
End cap made of PP with outlet DN/OD 110, type 020	-	160	250	0,12	48695
End cap type 75	-	160	61	0,03	47097
End cap type 95	-	160	81	0,04	47098
Foul air trap for RECYFIX trash box 100	75	78	135	0,08	967
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Foul air trap DN/OD 110, outside	-	-	-	0,37	961
Adaptor for DN/OD 75 to PVC-U pipe DN/OD 110	-	-	-	0,12	1193
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

SLOTTED CHANNEL 100

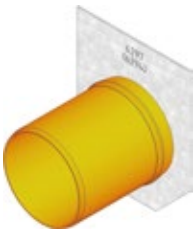
Accessories

FASERFIX®STANDARD E 100

Trash box
with plastic bucket, 0,5 m



End cap closed,
galvanised, type 01



End cap with horizontal
PVC-U pipe outlet DN/OD 110,
galvanised, type 010

PVC-U pipe outlet,
DN/OD 110

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

Mitre cuts NW 100
(price per cut, two cuts
necessary)

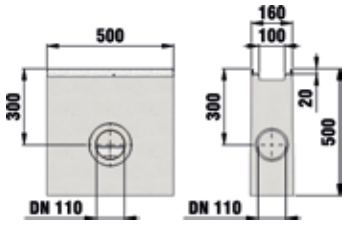
Factory-made insertion
of PVC-U union connectors
DN/OD 110 (incl. drilling)

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with plastic bucket, 0,5 m	500	162	478	46,00	6253
Trash box with galvanised bucket	500	162	478	42,40	6255
End cap closed, galvanised, type 01	-	160	140	0,30	6290
End cap closed, galvanised, type 010	-	160	194	0,45	6291
End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 010	-	160	194	0,54	6297
Foul air trap DN/OD 110, with hole	-	-	103	0,24	964
Foul air trap, horizontal, with rubber sealing, black	-	-	-	0,11	966
PVC-U pipe outlet, DN/OD 110	-	-	-	0,20	903
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Cutting to length of NW 100	-	-	-	-	994
Mitre cuts NW 100 (price per cut, two cuts necessary)	-	-	-	-	999
Drilling of connecting holes DN/OD 75	-	-	-	-	971
Drilling of connecting holes DN/OD 110	-	-	-	-	977
Factory-made insertion of modified PP union connectors DN/OD 75 (incl. drilling)	-	-	-	-	981
Factory-made insertion of PVC-U union connectors DN/OD 110 (incl. drilling)	-	-	-	-	982

SLOTTED CHANNEL 100

FASERFIX®KS 100

Trash box
with galvanised bucket



End cap closed,
type 010

PVC-U pipe outlet,
DN/OD 110

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

Factory-made insertion
of PVC-U union connectors
DN/OD 110 (incl. drilling)

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised bucket	500	160	500	50,00	8053	-
Trash box with composite bucket	500	160	500	47,73	8052	8252
End cap closed, type 01	-	160	160	0,37	8081	8181
End cap closed, type 010	-	160	214	0,50	8082	8182
End cap closed, type 020	-	160	274	0,64	8083	8183
End cap with horizontal PVC-U pipe outlet DN/OD 110, type 010	-	160	214	0,59	8087	8186
End cap with horizontal PVC-U pipe outlet DN/OD 110, type 020	-	160	274	0,73	8089	8187
Foul air trap, horizontal, with rubber sealing, black	-	-	-	0,11	966	-
Foul air trap DN/OD 110, with hole	-	-	103	0,24	964	-
Foul air trap DN/OD 110, outside	-	-	-	0,37	961	-
PVC-U pipe outlet, DN/OD 110	-	-	-	0,20	903	-
PVC mud bucket for trash box, 50 cm	420	85	152	0,25	940	-
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293	-
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051	-
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891	-
Installation aid NW 100 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	1,60	705	-
Cutting to length of NW 100	-	-	-	-	990	-
Mitre cuts NW 100 (price per cut, two cuts necessary)	-	-	-	-	995	-
Drilling of connecting holes DN/OD 75	-	-	-	-	971	-
Drilling of connecting holes DN/OD 110	-	-	-	-	972	-
Factory-made insertion of modified PP union connectors DN/OD 75 (incl. drilling)	-	-	-	-	981	-
Factory-made insertion of PVC-U union connectors DN/OD 110 (incl. drilling)	-	-	-	-	982	-
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703	-
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704	-

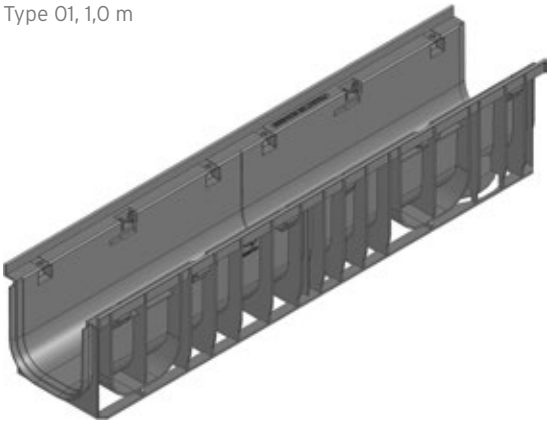
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

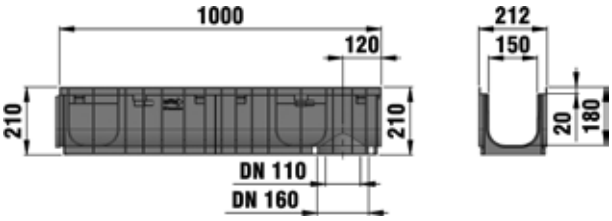
SLOTTED CHANNEL 150

Channels

RECYFIX®PRO 150

Type 01, 1,0 m



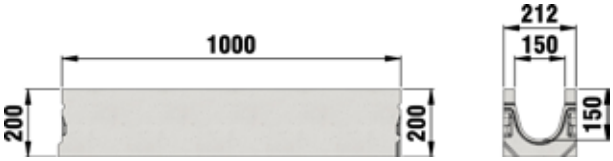


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	212	210	230	3,15	47100
Type 0105, 0,5 m	500	212	210	230	1,58	47149
Type 115, 1,0 m	1000	212	115	116	1,93	47130

SLOTTED CHANNEL 150

FASERFIX®STANDARD 150

Type 01, 1,0 m



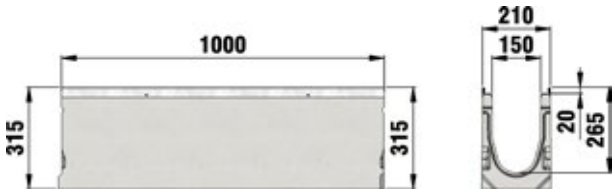
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item No.
Type 01, 1,0 m	1000	212	200	185	52,88	400
Type 0105, 0,5 m	500	212	200	185	26,50	401
Type 010, 1,0 m	1000	212	245	269	62,11	403

SLOTTED CHANNEL 150

Channels

FASERFIX®KS 150

Type 020, 1,0 m



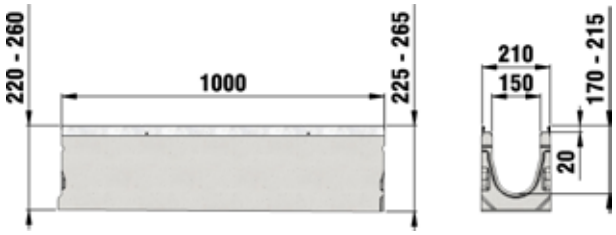
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01, 1,0 m	1000	210	220	185	54,47	11000	11500
Type 01L, with hole DN/OD 160, 1,0 m*	1000	210	220	185	54,00	11035	-
Type 010, 1,0 m	1000	210	265	245	60,17	11042	11542
Type 010L with hole, DN/OD 160, 1,0 m*	1000	210	265	245	61,00	11036	-
Type 015, 1,0 m	1000	210	290	282	66,00	11043	-
Type 020, 1,0 m	1000	210	315	312	69,55	11044	11544
Type 020L, with opening DN/OD 160, 1,0 m*	1000	210	315	312	68,00	11037	-
Type 110, 1,0 m**	1000	210	110	74	28,27	2121	-
Type 150, 1,0 m**	1000	210	150	134	33,58	2122	-
Type 200, 1,0 m**	1000	210	200	208	40,02	2123	-

The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Position of the opening to the bottom of the channel. 130 mm from the centre of the hole (DN/OD 160) to the end of the channel.**
**** Suitable for the use in parking areas.**

SLOTTED CHANNEL 150

FASERFIX®KS 150 with built-in fall 0.5 %

Type 1, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 1, 1,0 m	1000	210	220 - 225	186	54,59	11001	11501
Type 2, 1,0 m	1000	210	225 - 230	196	55,00	11002	11502
Type 3, 1,0 m	1000	210	230 - 235	203	55,86	11003	11503
Type 4, 1,0 m	1000	210	235 - 240	211	56,69	11004	11504
Type 5, 1,0 m	1000	210	240 - 245	218	57,15	11005	11505
Type 6, 1,0 m	1000	210	245 - 250	226	58,00	11006	11506
Type 7, 1,0 m	1000	210	250 - 255	233	58,39	11007	11507
Type 8, 1,0 m	1000	210	255 - 260	241	59,00	11008	11508
Type 9, 1,0 m	1000	210	260 - 265	248	59,76	11009	11509

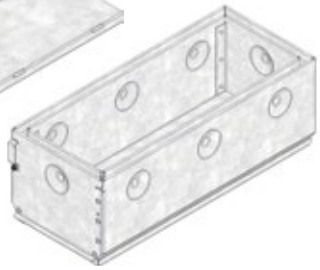
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

SLOTTED CHANNEL 150

Gratings

SLOTTED COVERS 150, neck height 160 mm, **class C 250**

Asymmetrical, SW 12 mm, 1,0 m



Access cover asymmetrical, SW 12 mm, 0,5 m

End cap, closed

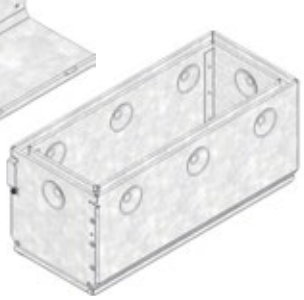
	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical, SW 12 mm, 1,0 m	1000	206	181	120	8,17	32400	32401
Asymmetrical, SW 12 mm, 0,5 m	500	206	181	120	4,38	32404	32405
Access cover asymmetrical, SW 12 mm, 0,5 m	500	213	181	500	-	32731	32732
End cap, closed	-	384	179	0,17	0,17	32840	32841
Sludge trap inlay, for slotted cover SW 12 mm, 1,0 m	1000	12	37	0,41	0,41	32848	32849
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

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

SLOTTED CHANNEL 150

SLOTTED COVERS 150, neck height 200 mm, **class D 400***

Asymmetrical, SW 14 mm, 1,0 m



Access cover asymmetrical, SW 14 mm, 0,5 m

Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical, SW 14 mm, 1,0 m	1000	206	222	140	11,72	32402	32403
Asymmetrical, SW 14 mm, 0,5 m	500	206	222	140	6,08	32406	32407
Access cover asymmetrical, SW 14 mm, 0,5 m	500	213	222	-	-	32733	32734
End cap, closed	-	380	219	0,19	0,19	32842	32843
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

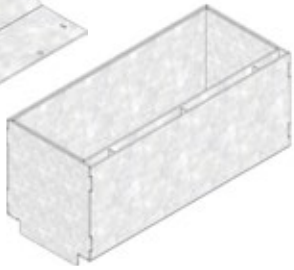
*** Not for use across the carriageway of highways or motorways in moving traffic.**
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

SLOTTED CHANNEL 150

Gratings

SLOTTED COVERS 150, neck height 200 mm, **class E 600***

Asymmetrical SW 18 mm, 1,0 m



Acess cover asymmetrical, SW 18 mm, 0,5 m

Extraction bail for access covers (2 pieces required)

	Length mm	Width mm	Height mm	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Asymmetrical SW 18 mm, 1,0 m	1000	210	204	180	20,43	32820	32821
Asymmetrical SW 18 mm, 0,5 m	500	210	204	180	10,02	32822	32823
Acess cover asymmetrical, SW 18 mm, 0,5 m	500	210	204	21,20	21,20	32830	32831
Extraction bail for access covers (2 pieces required)	-	396	150	0,77	0,77	740	-

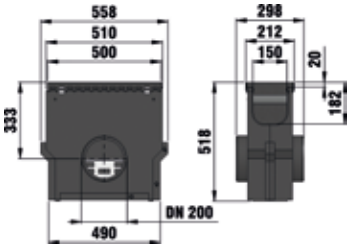
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.
*** Only to be used in combination with FASERFIX STANDARD channels**

SLOTTED CHANNEL 150

Accessories

RECYFIX®PRO 150

Trash box with KTL frames
and galvanised mud bucket



End cap combined,
PP with outlet DN/OD 75/110
for type 01

End cap closed,
type 115

Mud bucket vertical
made of modified composite
for outlet DN/OD 110, black

Mud bucket for outlet
DN/OD 160

Foul air trap, vertical,
DN/OD 110

Foul air trap set, vertical
DN/OD 110 for RECYFIX 100

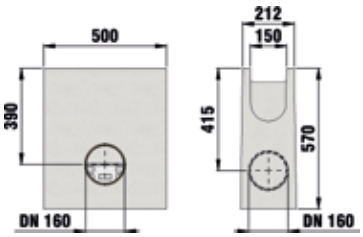
	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with KTL frames and galvanised mud bucket	500	212	518	16,60	47151
End cap combined, PP with outlet DN/OD 75/110 for type 01	-	210	218	0,14	40591
End cap closed, type 115	-	208	100	0,04	47197
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,04	40293
Mud bucket vertical made of modified composite for outlet DN/OD 160, black	-	-	-	0,13	845
Mud bucket for outlet DN/OD 160	-	-	180	0,82	2191
Foul air trap, vertical, DN/OD 110	-	187	181	0,56	40295
Foul air trap set, vertical DN/OD 110 for RECYFIX 100	-	-	203	0,44	40294
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,60	980

SLOTTED CHANNEL 150

Accessories

FASERFIX®KS 150

Trash box
with galvanised bucket



End cap closed, type 01

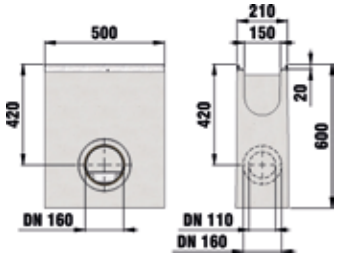
	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised bucket	500	210	600	65,32	11052	11552
End cap closed, type 01	-	210	220	0,67	11081	11581
End cap closed, type 010	-	210	265	0,83	11082	11582
End cap closed, type 110	-	210	110	0,36	2181	2681
End cap closed, type 150	-	210	150	0,48	2182	-
PVC-U pipe connection element DN/OD 160	-	-	-	0,50	906	-
Foul air trap DN/OD 160	584	160	439	2,00	960	-

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

SLOTTED CHANNEL 150

FASERFIX®STANDARD 150

Trash box
with galvanised mud bucket,
0,5 m



End cap closed,
type 01

Mud bucket for outlet
DN/OD 160

Drilling of connecting holes
DN/OD 160

Factory-made insertion
of PVC-U union connectors
DN/OD 160 (incl. drilling)

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Trash box with galvanised mud bucket, 0,5 m	500	212	570	64,59	416	-
End cap closed, type 01	-	210	220	0,67	11081	11581
End cap closed, type 010	-	210	265	0,83	11082	11582
End cap closed, type 020	-	210	315	0,92	11083	11583
End cap with horizontal PVC-U pipe outlet DN/OD 160, type 01 - 010	-	210	265	0,97	11087	11587
End cap with horizontal PVC-U pipe outlet DN/OD 160, type 020	-	210	315	1,14	11088	11588
Foul air trap DN/OD 160	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	-
Universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	0,97	19051	-
Tubular pistol for universal sealant/adhesive Siga-Meltell® 320 black**	-	-	-	1,30	6891	-
Installation aid NW 150 (exclusively for laying channels! For laying 2 pieces are necessary) - due to security reasons no return can be made	-	-	-	2,09	136018	-
Cutting to length of NW 150	-	-	-	-	991	-
Mitre cuts NW 150 (price per cut, two cuts necessary)	-	-	-	-	996	-
Drilling of connecting holes DN/OD 160	-	-	-	-	973	-
Factory-made insertion of PVC-U union connectors DN/OD 160 (incl. drilling)	-	-	-	-	983	-
Fixing-system EP, empty pipe in the channel bottom, (2 pieces per metre)	-	-	-	0,03	703	-
steel bars for fixing system EP (2 pieces per metre)	-	-	-	0,01	704	-

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

YOUR BENEFITS WITH **SLOTTED CHANNELS** FLAT

PRODUCT RANGE

- monolithic slotted channel with flat channel body
- ideally suited for low installation heights
- two different neck heights for standard slab/paving thicknesses

= DESIGN FLEXIBILITY / COST SAVINGS

CLOSED OR PERFORATED CHANNEL BODY

- variable versions according to requirements
- as closed or perforated version for surface water drainage or for onsite infiltration

= DESIGN FLEXIBILITY

CORNER ELEMENT

- 90 ° inner and outer corner available
- can be used at any point on the channel run, even when shortening the channel elements

= DESIGN FLEXIBILITY / COST SAVINGS

CONNECTOR

- guaranteed flush-mounted installation
- secures the channel against displacement
- can be used at any point on the channel run, also when shortening the channel elements

= PERFORMANCE ASSURED / DESIGN FLEXIBILITY

END CAP

- unique end cap
- no penetration of foundation material
- permanently fixed via clip function

= COST SAVINGS

INSPECTION BOX

- serves for cleaning and maintenance of the channel run
- enables vertical connection to the drainage pipe
- removable cover can be filled with the surrounding surface coating
- homogeneous appearance
- can be placed variably in the channel run, also on shortened channel elements
- slot continues to run seamlessly

= QUALITY & PERFORMANCE ASSURED

SLUDGE TRAP INLAY FOR CHANNEL SLOT

- keeps away coarse dirt
- reduces the slot width for pedestrian areas
- can be retrofitted if required
- clippable

= QUALITY & PERFORMANCE ASSURED

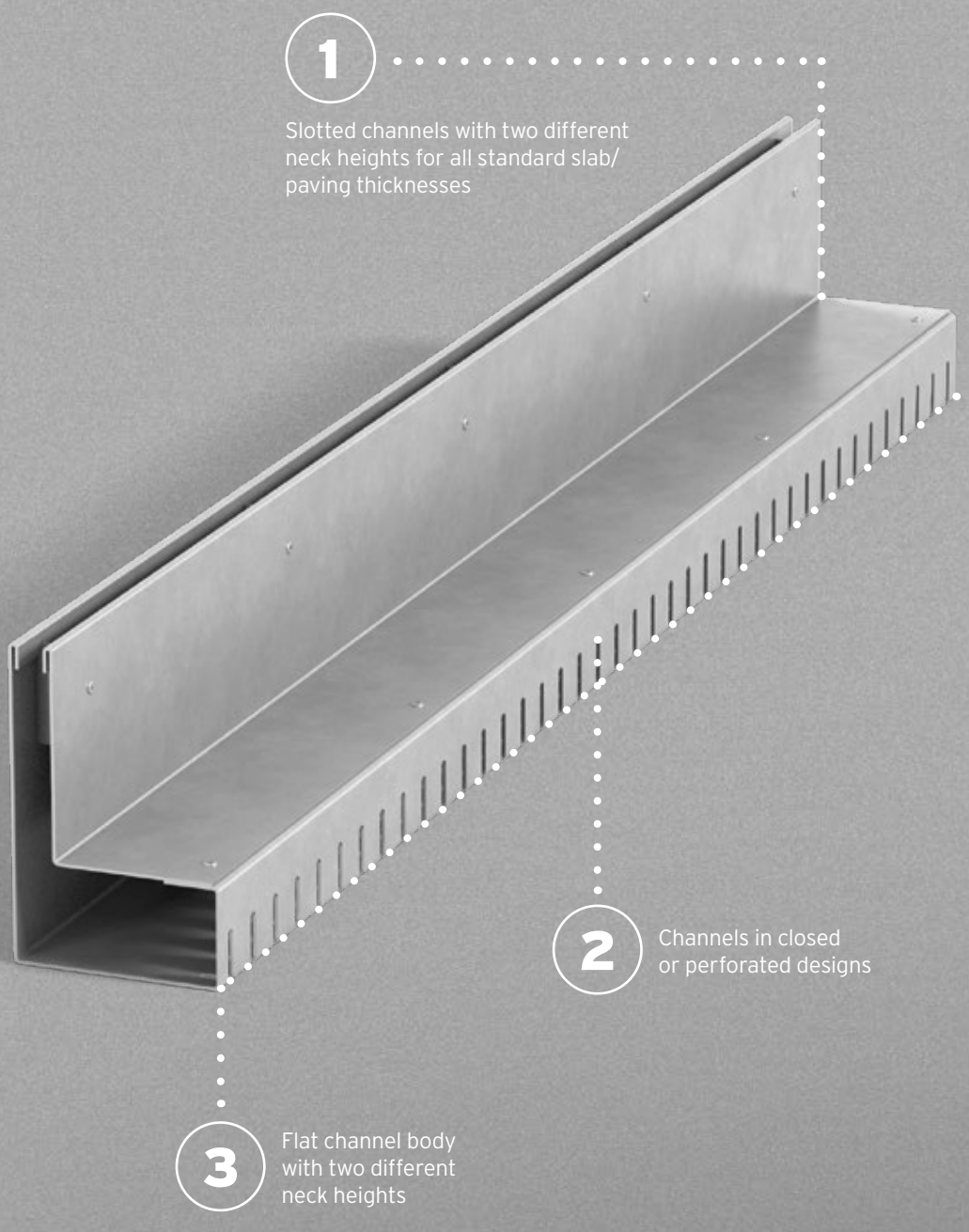
MATERIAL

- galvanised or stainless steel
- can be selected according to requirements

= DESIGN FLEXIBILITY / LONGEVITY

IDEAL FOR ...

spaces and surfaces with high aesthetic demands, in particular flat installation situations.

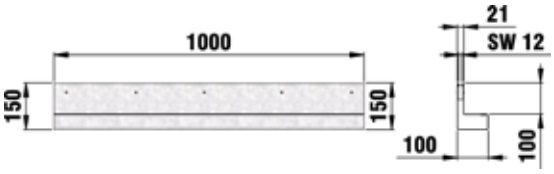


SLOTTED CHANNEL FLAT 100

Monolithic Slotted Channels

Construction height 150 mm, neck height 100 mm, **class A 15**

Type 150, asymmetric, 1,0 m



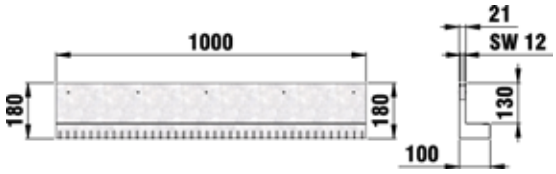
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 150, asymmetric, p erforated on one side, 1,0 m	1000	100	150	49.17	120	6,11	32195	32196
Type 150, asymmetric, 1,0 m	1000	100	150	49.17	120	6,22	32197	32198

The quality of stainless steel material corresponds to CNS 1.4301.

SLOTTED CHANNEL FLAT 100

Construction height 180 mm, neck height 130 mm, **class A 15**

Type 180, asymmetric, perforated on one side, 1,0 m



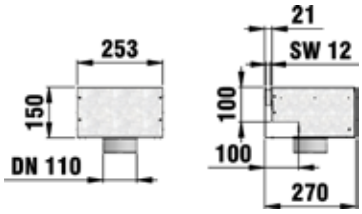
	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 180, asymmetric, perforated on one side, 1,0 m	1000	100	180	58.24	120	6,74	32199	32200
Type 180, asymmetric, 1,0 m	1000	100	180	58.24	120	6,78	32201	32202

The quality of stainless steel material corresponds to CNS 1.4301.

SLOTTED CHANNEL FLAT 100

Accessories

Inspection elements



Access box with removeable paveable cover, type 180, neck height 130 mm, asymmetric

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Access box with removeable paveable cover, type 150, neck height 100 mm, asymmetric	253	270	150	5,38	32163	32164
Access box with removeable paveable cover, type 180, neck height 130 mm, asymmetric	253	270	180	6,17	32165	32166
Extraction bail for integrated access cover and for access cover with duo slotted cover (1 pair)	31	6	192	0,12	32850	-

The quality of stainless steel material corresponds to CNS 1.4301.

End caps

End cap type 180, upper and lower part, closed

	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
End cap type 150, upper and lower part, closed	-	-	-	0,08	32147	32149
End cap type 180, upper and lower part, closed	-	-	-	0,10	32148	32150

The quality of stainless steel material corresponds to CNS 1.4301.

SLOTTED CHANNEL FLAT 100

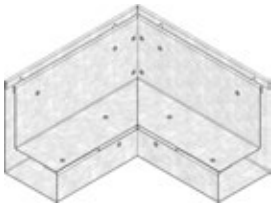
Connector

Connector for type 150

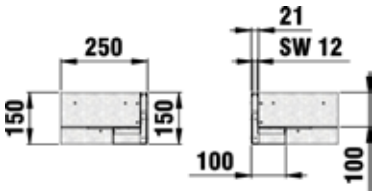
	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Connector for type 150	-	-	-	0,22	32219	32220
Connector for type 180	-	-	-	0,25	32180	32181

The quality of stainless steel material corresponds to CNS 1.4301.

Further accessories



Corner element inside corner, type 150, neck height 100 mm, asymmetric

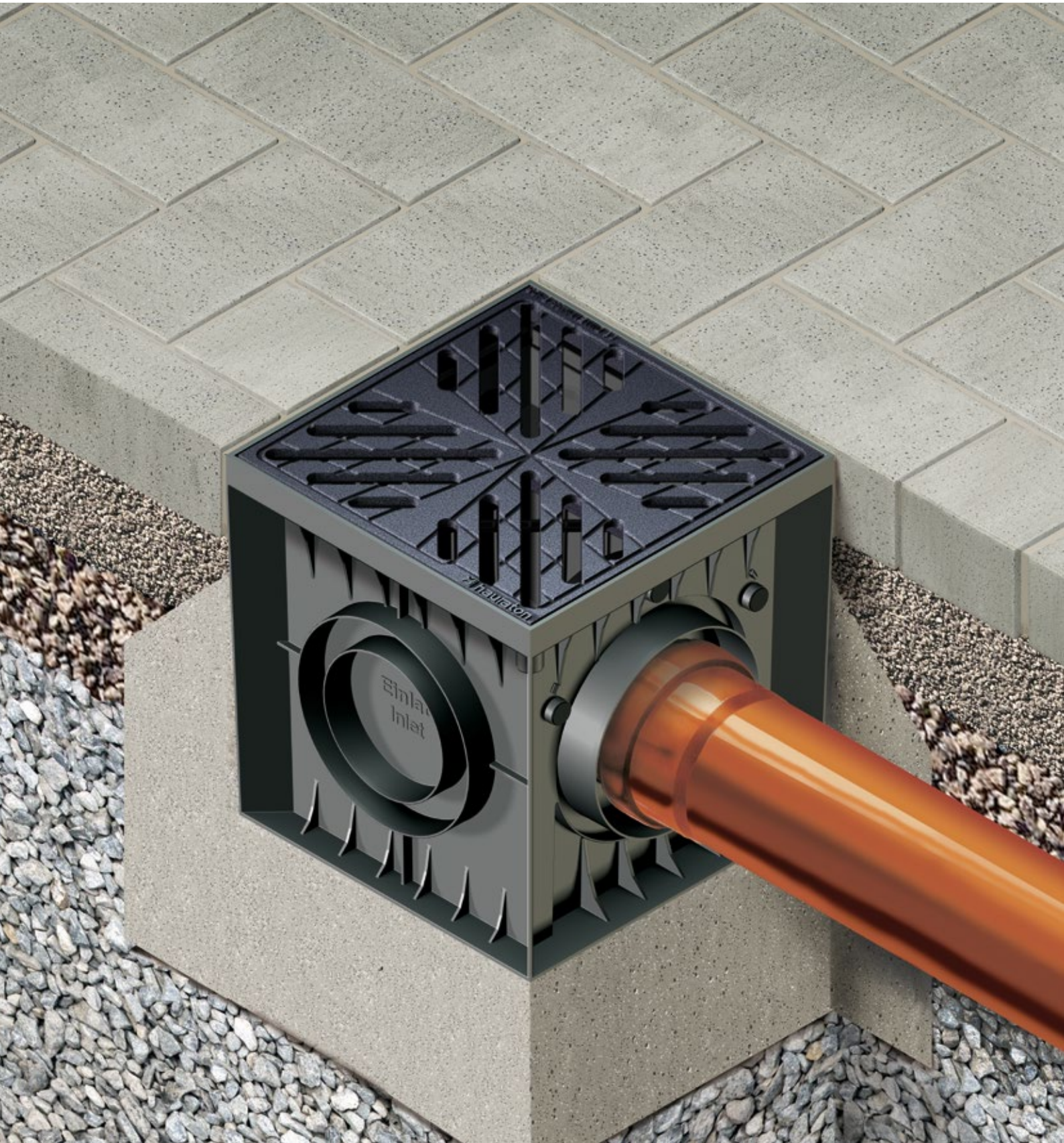


	Length mm	Width mm	Height mm	Weight kg	Item-No. galvanised	Item-No. stainless steel
Corner element inside corner, type 150, neck height 100 mm, asymmetric	250	100	150	3,05	32203	32204
Corner element inside corner, type 180, neck height 130 mm, asymmetric	250	100	180	3,28	32205	32206
Corner element outside corner, type 150, neck height 100 mm, asymmetric	250	100	150	3,91	32207	32208
Corner element outside corner, type 180, neck height 130 mm, asymmetric	250	100	180	4,25	32209	32210
Sludge trap inlay, square perforation for type 150, type 180	1000	-	-	0,29	32227	32228

The quality of stainless steel material corresponds to CNS 1.4301.

RECYFIX POINT
FASERFIX POINT STANDARD

Point drainage for yards, garages and patios.



hauraton

RECYFIX POINT
FASERFIX POINT STANDARD

Point drainage for yards, garages and patios.

1 Requirements

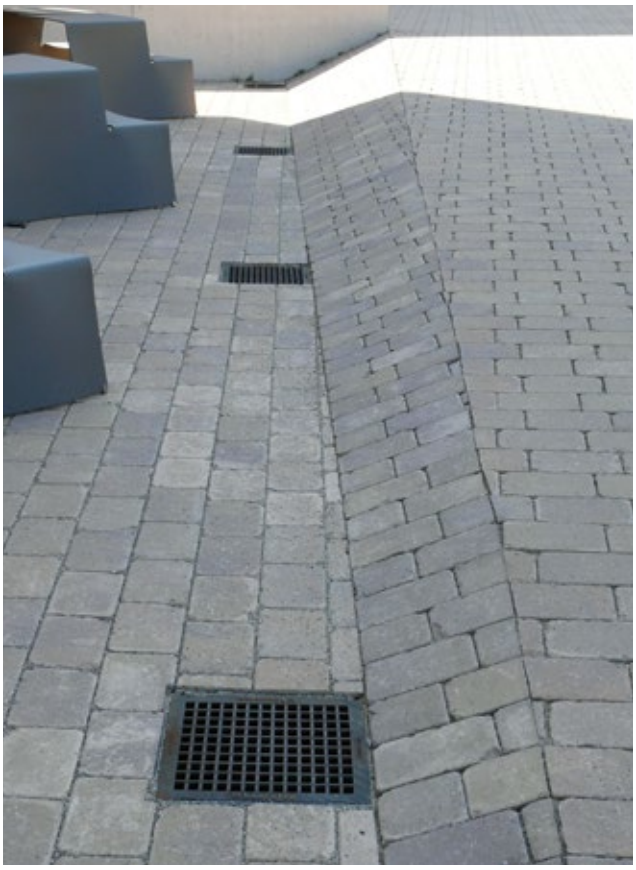
- discharge of heavy rain or or large melting water quantities at one point
- the system has to permanently withstand all expected traffic loads
- the point drainage gullies can be integrated harmoniously in the surface

2 Application areas

- courts
- garage forecourts
- places and parking areas
- ways

3 Solutions

- high stability due to materials used: polypropylene or fibre-reinforced concrete
- low weight (RECYFIX POINT) for easy transport and installation
- connection possibilities to every kind of sewage pipe
- high quality ductile iron gratings in star design and galvanised mesh gratings
- mud bucket as well as baffle as foul air trap included



Anne Sophie School in Künzelsau, Germany

Private house in Wiehl, Germany

Futterstreet in Saarbrücken, Germany

University of Wuppertal in Germany

University building in Saarbrücken, Germany

YOUR BENEFITS WITH **RECYFIX** POINT

HIGHLY ADAPTABLE

- side connection options DN/OD 110 and DN/OD 160
- vertical connection options DN/OD 160 and DN/OD 200
- extension frame for height adjustment
- central connection to sewage system = minimal installation effort

= DESIGN FLEXIBILITY / PERFORMANCE ASSURED

HIGH RESISTANCE

- high UV resistance
- withstands high temperature differences
- suitable for temperatures from - 50 °C to + 80 °C and higher

= QUALITY ASSURED / LONGEVITY

HIGH-GRADE MATERIAL

- **RECYFIX** - particularly robust and impact-resistant material
- **RECYFIX** = 100 % recycled and recyclable

= QUALITY ASSURED / PERFORMANCE ASSURED

PRE-ASSEMBLED READY FOR INSTALLATION

- complete point inlet = one component
- easy handling in storage and on construction site

= COST SAVINGS

EASY HANDLING ON SITE

- considerably lighter than point drainage made of mineral material
- easy transport and installation
- can be easily processed on site

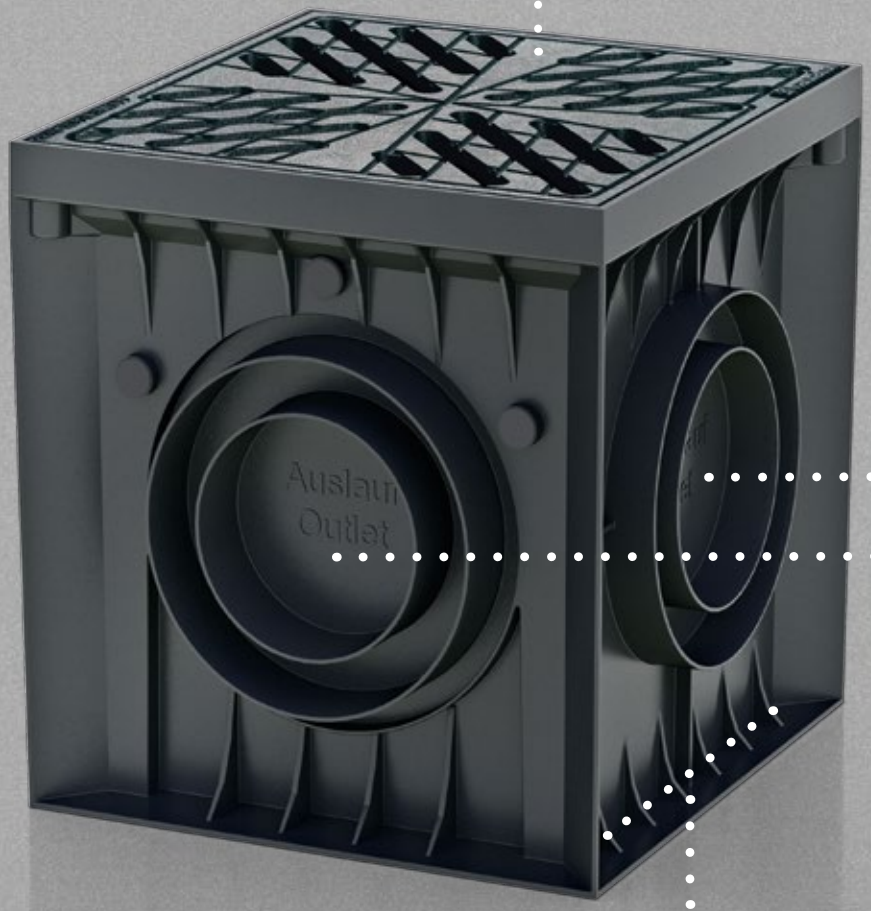
= TIME SAVINGS / COST SAVINGS

EASY CLEANING AND MAINTENANCE

- removable sludge trap bucket enables optimum debris retention and unobstructed drainage
- integrated foul air trap

= PERFORMANCE ASSURED / COST SAVINGS

IDEAL FOR ...
point drainage of paved areas such as courtyards, walkways and squares.



RECYFIX material = 100 % recycled composite

YOUR BENEFITS WITH **FASERFIX** POINT STANDARD

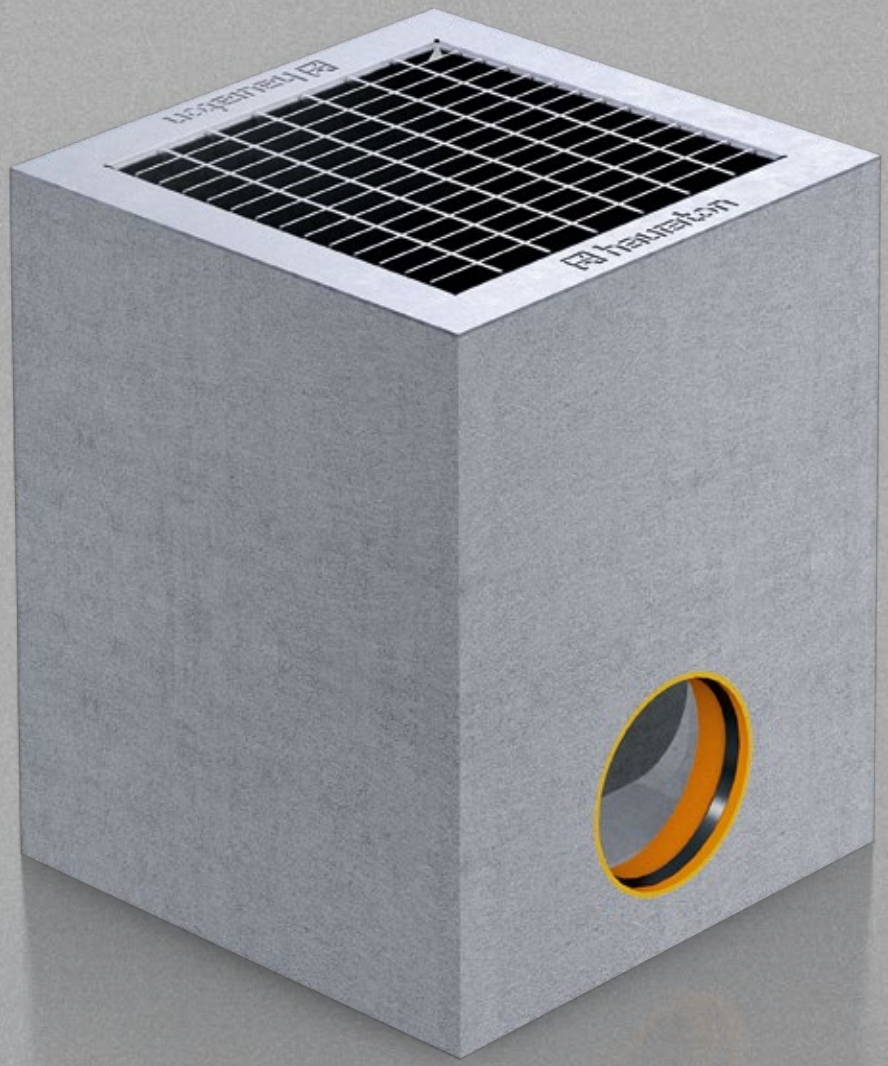
HIGH-GRADE MATERIAL

- „Made in Germany“
- optimal stability through fibre-reinforced concrete (polypropylene fibres) with low weight
- adheres well to the foundation concrete (same coefficient of thermal expansion)
- installation without grating possible
- fire resistance class A1 (non-combustible) according to DIN 4102

= QUALITY ASSURED / PERFORMANCE ASSURED

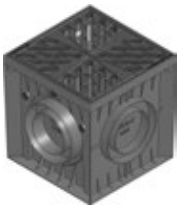
IDEAL FOR ...

point drainage made of fibre-reinforced concrete for applications such as yards, driveways and squares.

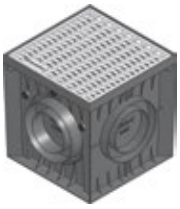


RECYFIX®POINT 30/30

RECYFIX®POINT 30/30, Point drainage, **class B 125**,
with foul air trap, mud bucket and KG-pipe connection DN/OD 110, DN/OD 160



Construction height 300 mm
with ductile iron grating,
star design SW 12 mm, black



Construction height 300 mm
with mesh grating MW 30/15 mm,
galvanised

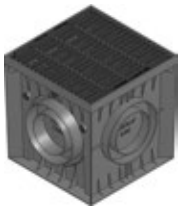
Extension frame for RECYFIX POINT
construction height 300 mm,
increase of 106 mm

	Length mm	Width mm	Height mm	Weight kg	Item No.
Construction height 300 mm with ductile iron grating, star design SW 12 mm, black	300	300	300	6,97	32184
Construction height 300 mm with mesh grating MW 30/15 mm, galvanised	300	300	300	3,70	32183
Extension frame for RECYFIX POINT construction height 300 mm, increase of 106 mm	300	300	120	0,63	32231
Construction height 450 mm ductile iron grating star design SW 12 mm, black	300	300	450	7,90	32617
Construction height 450 mm with mesh grating MW 30/15 mm, galvanised	300	300	450	4,51	32616

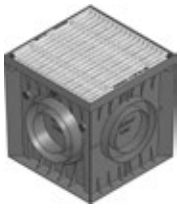
Point drainage tested according to EN 1433.

RECYFIX®POINT 30/30

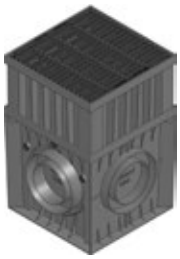
RECYFIX®POINT 30/30, Point drainage, **class C 250**,
with foul air trap, mud bucket and KG-pipe connection DN/OD 110, DN/OD 160



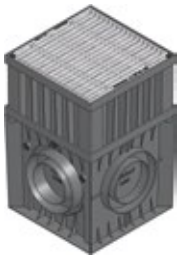
Construction height 300 mm
with longitudinal ductile iron grating,
bar distance 8 mm, screwed, black, KTL-coated



Construction height 300 mm
with longitudinal ductile iron grating,
bar distance 8 mm, screwed, galvanised



Construction height 450 mm
with longitudinal ductile iron grating,
bar distance 8 mm, screwed, black, KTL-coated



Construction height 450 mm
with longitudinal ductile iron grating,
bar distance 8 mm, screwed, galvanised

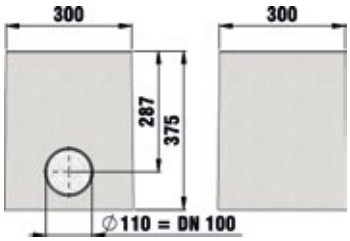
	Length mm	Width mm	Height mm	Weight kg	Item No.
Construction height 300 mm with longitudinal ductile iron grating, bar distance 8 mm, screwed, black, KTL-coated	300	300	300	6,89	32612
Construction height 300 mm with longitudinal ductile iron grating, bar distance 8 mm, screwed, galvanised	300	300	300	6,89	32613
Construction height 450 mm with longitudinal ductile iron grating, bar distance 8 mm, screwed, black, KTL-coated	300	300	450	7,86	32614
Construction height 450 mm with longitudinal ductile iron grating, bar distance 8 mm, screwed, galvanised	300	300	450	7,86	32615

Point drainage tested according to EN 1433.

FASERFIX®POINT STANDARD 30/30

FASERFIX®POINT STANDARD 30/30, Point drainage, **trafficable**, with foul air trap and PE mud bucket

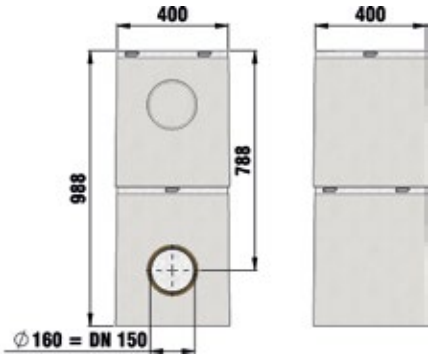
with mesh grating
MW 30/15 mm, galvanised



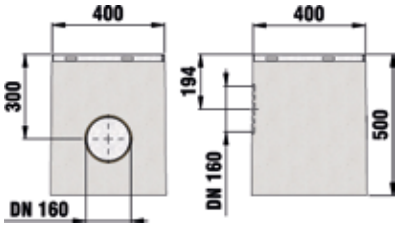
	Length mm	Width mm	Height mm	Weight kg	Item No.
with mesh grating MW 30/15 mm, galvanised	300	300	375	46,64	4430

FASERFIX®POINT STANDARD 40/40

FASERFIX®POINT STANDARD 40/40, Point drainage, **class A 15**, with foul air trap and PE mud bucket



Size 1, 2 parts, with mesh grating MW 30/30 mm, galvanised

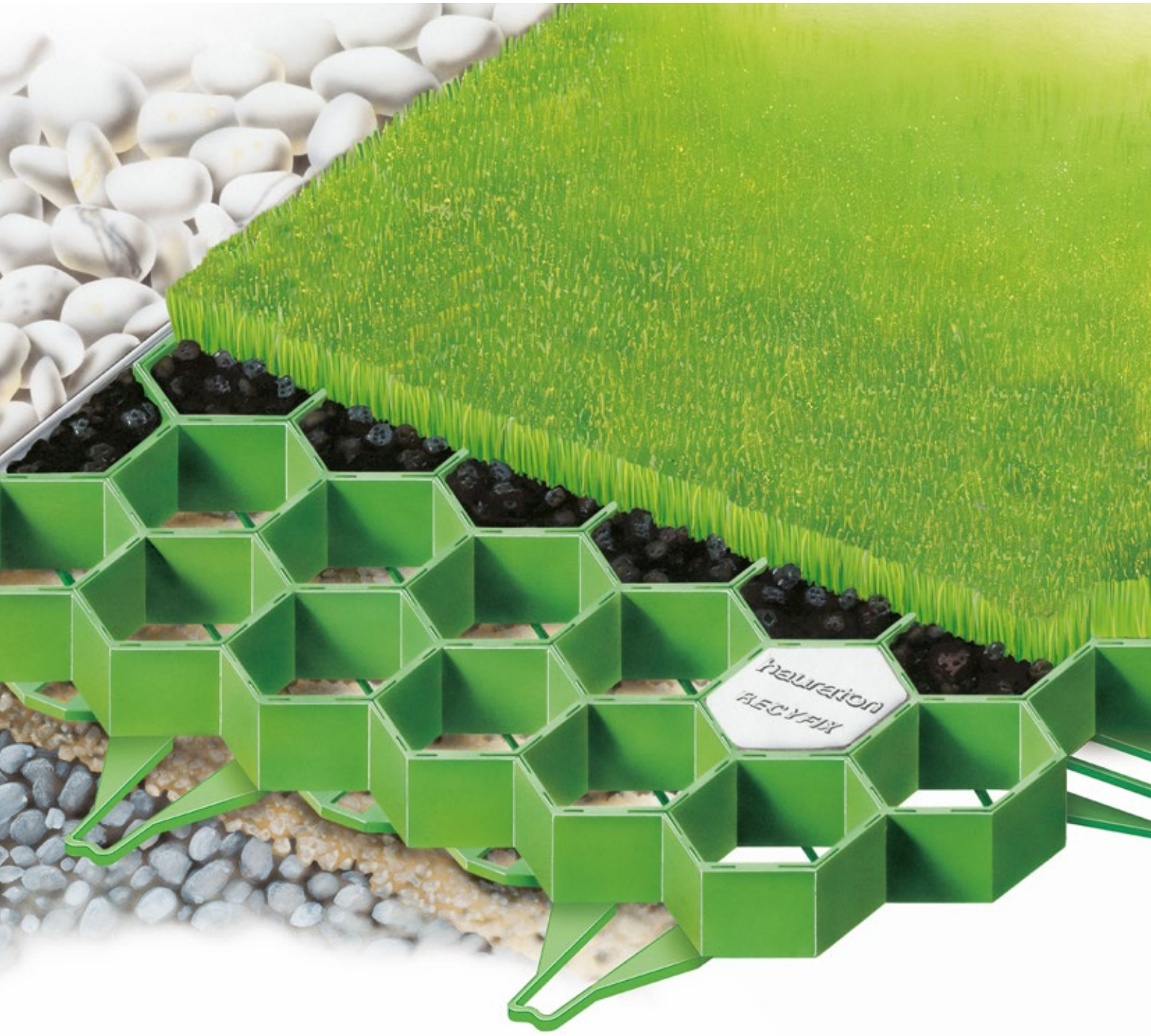


Size 2, 1 part, with mesh grating MW 30/30 mm, galvanised

	Length mm	Width mm	Height mm	Weight kg	Item No.
Size 1, 2 parts, with mesh grating MW 30/30 mm, galvanised	400	400	988	141,00	4860
Size 2, 1 part, with mesh grating MW 30/30 mm, galvanised	400	400	500	82,40	4760
Extension part	400	400	500	63,48	4825

RECYFIX GREEN

Turf honeycomb for infiltration of rainwater in parking areas.



hauraton

RECYFIX GREEN

Turf honeycomb for infiltration of rainwater in parking areas.

1 Requirements

- preserve natural seepage areas during the progressive sealing of land or create new ones
- high drainage capacity and stability at the same time - depending on the exposure to traffic
- passable even for large vehicles loads, such as HGVs, coaches or agricultural vehicles
- possible application of mineral-based fill materials, such as chipping

2 Application areas

- occasionally frequented parking areas
- exhibition areas
- parking lots for passenger cars
- pedestrian pathways
- holiday resorts
- reinforcements for embankments and river banks

RECYFIX GREEN SUPER

- camping places
- trailer home parks
- driveways on golf courses
- access ways for fire fighting vehicles and rescue vehicles

RECYFIX GREEN STANDARD

- terraces
- urban green spaces around trees
- lawns and pathways in sports grounds

3 Solutions

- 100% recycled material with very high flexibility
- stable and breakproof
- extremely lightweight and hence easy to transport and lay
- integrated anchors and mutual latching keep the blocks together
- can be additionally fastened with anchoring pegs
- weather-resistant and durable

4 Versions

RECYFIX GREEN SUPER

- massive construction for higher dynamic load
- different materials (gravel, chippings, stone, earth, turf) can be used for filling

RECYFIX GREEN STANDARD

- for parking areas with low dynamic loads
- turf planted areas
- protection against erosion, stable turf

Application examples **RECYFIX** GREEN SUPER

Millpark Residential area in Dublin, Ireland

Application examples **RECYFIX** GREEN STANDARD

Terra Botanica in Angers, France

Company parking area Rabomatik in Győr, Hungary

YOUR BENEFITS WITH **RECYFIX** GREEN

DIVERSE APPLICATIONS WITH NATURAL INFILTRATION

- **RECYFIX** GREEN SUPER:
  - massive construction for higher dynamic load
  - tested surface load in installation: max. 4.000 kN/m²
  - Parking areas with low frequency of use for cars, trucks or buses
  - loads such as: camping sites, parking spaces for motorhomes, pathways on golf courses and fire & rescue access roads
- **RECYFIX** GREEN STANDARD:
  - for loads with low dynamic forces
  - tested surface load in installation: max. 2,000 kN/m²
  - Parking areas with low frequency of use for cars
  - loads such as: terraces, green spaces in the city area around trees, lawns and paths on sports grounds

= DESIGN FLEXIBILITY / STABILITY

ADDITIONAL SECURITY WITH RECYFIX ANCHORING PEG

- **RECYFIX** anchoring peg = for additional anchoring on sloping ground
- material: 100 % pure **RECYFIX** recycled composite
- highly impact-resistant

= PERFORMANCE ASSURED

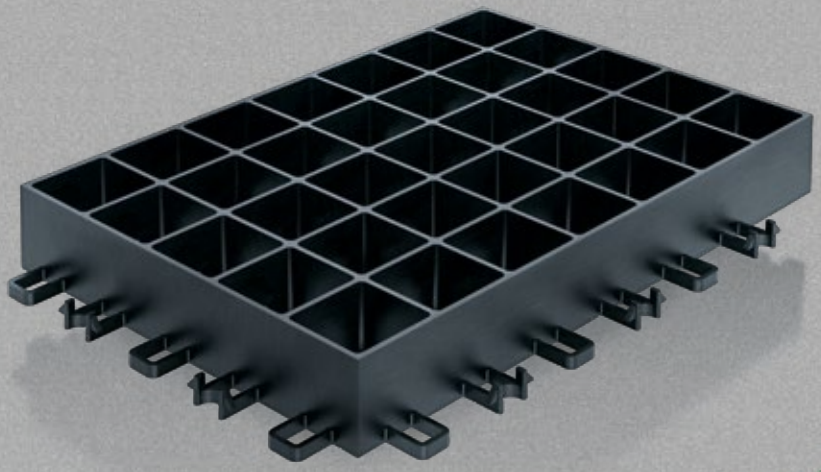
HIGH-GRADE MATERIAL

- **RECYFIX** GREEN SUPER:
  - material: 100 % industrial recycled PE
  - highly impact-resistant
  - UV-stabilised
- **RECYFIX** GREEN STANDARD:
  - material: 100 % pure recycled HD-PE
  - highly impact-resistant
  - UV-stabilised

= QUALITY ASSURED / PERFORMANCE ASSURED

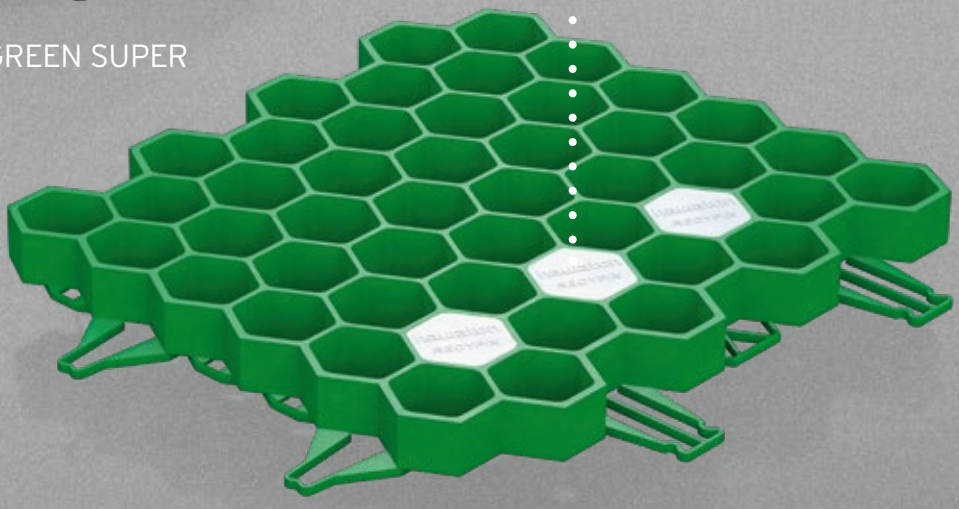
IDEAL FOR ...

natural infiltration of rainwater on paved traffic areas such as parking places with occasional traffic, exhibition areas, parking spaces for cars, pedestrian walkways, holiday resorts and reinforcements for embankments and river banks.



RECYFIX GREEN SUPER

1 **RECYFIX** GREEN accessories (fixing anchor and marking dots)

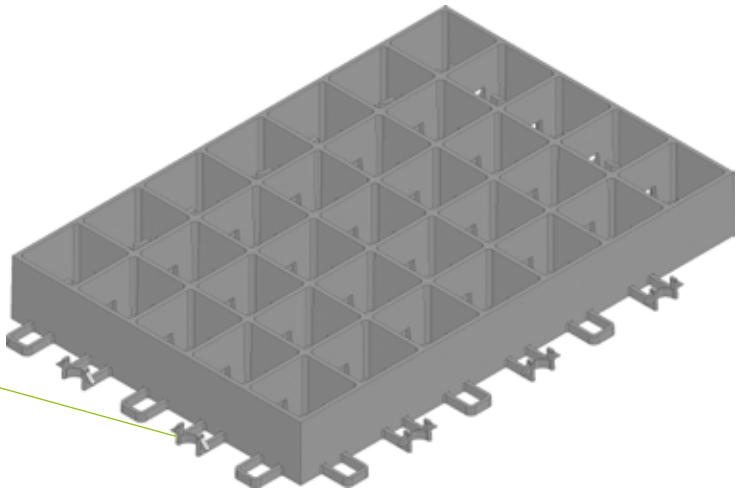


RECYFIX GREEN STANDARD

RECYFIX GREEN SUPER

Safely anchored to the ground

RECYFIX GREEN SUPER blocks are equipped with integral anchors that ensure safe positioning on the ground. Where the blocks are laid on sloping ground or embankments, additional anchoring is possible with Anchoring Pegs.



Technical data

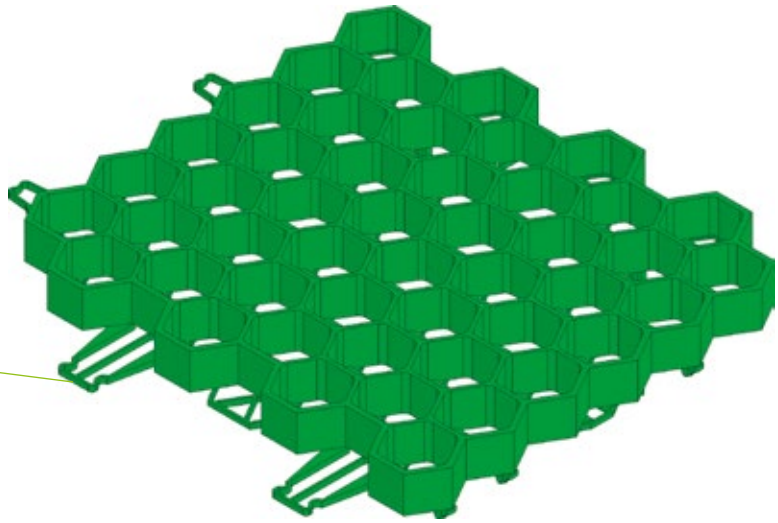
■ RECYFIX GREEN SUPER

Material: 100 % industrial recycled PE,
highly impact-resistant, UV-stabilised,
Colour: black
The recycling process may result in variations in colour.
Openings for root penetration: > 50 %
Load-bearing capacity:
tested distributed load when installed: max. 4,000 kN/m²
Dimensions: L 600 x W 400 x H 75 mm
Coverage: approx. 4 blocks per m², including joints
Weight: approx. 2.5 kg/block Item No.: 40060

■ RECYFIX Anchoring Pegs

for additional anchoring on sloping ground
Material: 100 % pure recycled ABS-plastic,
highly impact-resistant
Colour: black
Length: 250 mm
Weight: approx. 20 g/peg Item No.: 40020

RECYFIX GREEN STANDARD



Technical data

■ RECYFIX GREEN STANDARD

Material: 100 % pure recycled HD-PE,
highly impact-resistant, UV-stabilised
Colour: green
The recycling process may result in variations in colour.
Openings for root penetration: over 50 %

Size 1 dimensions: approx. 387 mm x 334 mm x 38 mm
Coverage: approx. 5.9 mats per m^2
installation with fixed expansion joint (to compensate for longitudinal expansion)
Weight: approx. 610 g/piece Item No.: 40000

Size 2 dimensions: approx. 387 mm x 555 mm x 38 mm
coverage: approx. 3.8 mats per m^2
installation with fixed expansion joint (to compensate for longitudinal expansion)
Weight: approx. 1000 g/piece Item No.: 40005

RECYFIX Marking Dots

to provide a visual demarcation between parking lots etc.
Material: 100 % HD-PE,
highly impact-resistant,UV-stabilised
Colour: white
Height: 38 mm
Weight: approx. 20 g/piece Item No.: 40015

RECYFIX Anchoring Pegs

for additional anchoring on sloping ground
Material: 100 % unmixed recycled ABS-plastic,
highly impact-resistant
Colour: black
Length: 250 mm
Weight: approx. 20 g/piece Item No.: 40020

LINEFIX

Effective border edging for garden and park areas.

hauraton

LINEFIX

Effective border edging for garden and park areas.

1 Requirements

- effective and visually unobtrusive edging for pathways, flowerbeds and lawn areas
- adapt to the shapes of pathways and borders
- barrier against root spread at transitional areas, such as between lawn and paved areas or lawn and tamped areas

2 Application areas

- pathways
- squares
- lawn
- sport grounds

3 Solutions

- easy to install, without digging a trench and foundations
- can be installed much easier than concrete edgings
- visually unobtrusive and yet very effective edging
- can be installed in straight lines or in curves and bends
- can be made in different materials: PP, galvanised steel or stainless steel
- different radii, also close to borders 1 m radius

Public square in Germany

Commercial centre ATOLL in Beaucouze, France

Commercial centre ATOLL in Beaucouze, France

Commercial centre ATOLL in Beaucouze, France

YOUR BENEFITS WITH **LINEFIX**

QUICK INSTALLATION & EASY HANDLING ON SITE

- easy installation → without digging a trench and foundation
- can be installed much easier than concrete edgings
- **LINEFIX** SUPER: simple connection of the individual elements by connector flange
- **LINEFIX** STANDARD: quick connection with anchoring peg

= TIME SAVINGS / COST SAVINGS

VARIOUS DESIGN POSSIBILITIES

- installation in straight lines or in curves and bends
- Material **LINEFIX** SUPER: galvanised or stainless steel
- Material **LINEFIX** STANDARD: 100 % pure recycled composite

= DESIGN FLEXIBILITY

IDEAL FOR ...

effective and visually unobtrusive edging for pathways, squares, flowerbeds and lawns.

LINEFIX SUPER

LINEFIX STANDARD

LINEFIX

Effective border edging for garden and park areas.

LINEFIX SUPER DBGM

These borders feature a connector flange at one end so that they can be fitted to each other via connection strap.

LINEFIX SUPER, Borders

	Length mm	Width mm	Height mm	Haunch width mm	flank height mm	Weight kg	Item No.
galvanised, 1,5 m	1500	-	175	20	175	2,80	43210
stainless steel, 1,5 m	1500	-	175	20	175	2,85	43230

We recommend to fix the borders every 20 - 25 cm with a steel nail.
Allows a minimum radius of r = 2.0 m
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

LINEFIX SUPER, Accessories

	Length mm	Width mm	Height mm	Weight kg	Item No.
Screw nail, galvanised	200	-	-	0,02	43250
Screw nail, stainless steel	200	-	-	0,02	43270

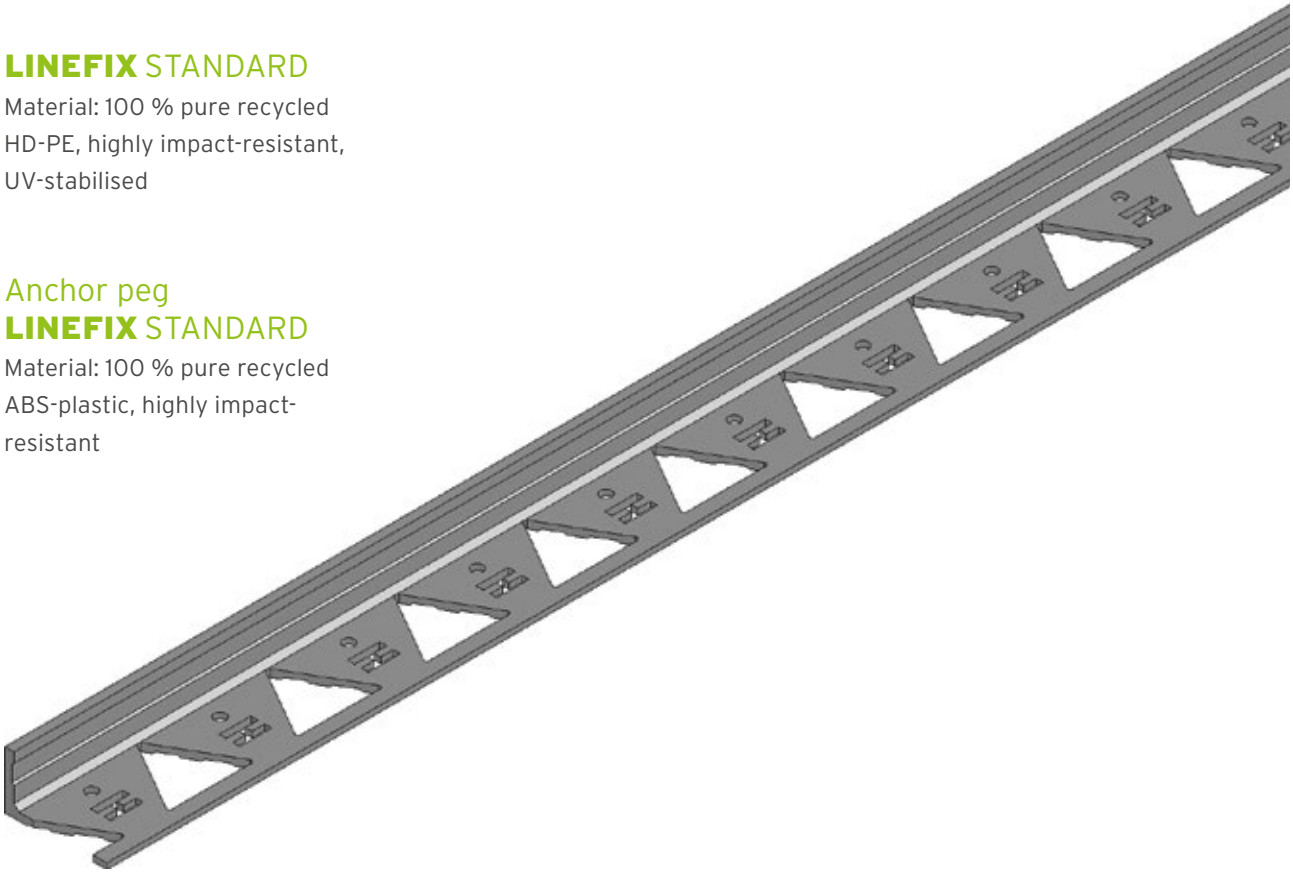
The quality of stainless steel material corresponds to CNS 1.4301 or CNS 1.4307.

LINEFIX STANDARD

Material: 100 % pure recycled HD-PE, highly impact-resistant, UV-stabilised

Anchor peg **LINEFIX** STANDARD

Material: 100 % pure recycled ABS-plastic, highly impact-resistant



LINEFIX STANDARD, **Borders**

	Length mm	Width mm	Height mm	Haunch width mm	flank height mm	Weight kg	Item No.
made of PP, 1,5 m	1500	-	45	80	45	0,66	43110

Minor deviations in the measurements possible due to recycled material.
Allows a minimum radius of r = 1.0 m

LINEFIX STANDARD, **Accessories**

	Length mm	Width mm	Height mm	Weight kg	Item No.
Anchoring peg made of ABS-plastic	250	-	-	0,04	40020

We recommend to fix LINEFIX STANDARD borders every 20 - 25 cm with an anchoring peg.
For fixing, a steel nail (item-no. 43250) may also be used.

TOP X

The drainage channel for private driveways, courtyards, patios and gardens.

hauraton

TOP X

The drainage channel for private driveways, courtyards, patios and gardens.

1 Requirements

Drainage channels in private areas must

- continually withstand daily loads
- be easy to transport and simple to install
- be resistant to environmental effects (frost, heat and moisture)
- be visually pleasing

2 Application areas

- predominately private areas
- garage entrances
- courtyard areas
- terraces
- gardens
- parks

3 Solution

Because of this the new TOP X channels are very suitable for the drainage of private areas

- high stability and functionality
- low weight
- preformed supports for simple pipe connection
- gratings made of recycled composite, galvanised steel or stainless steel

YOUR BENEFITS WITH **TOP X**

NUMEROUS DESIGN POSSIBILITIES

- channels and accessories in black or silver
- different grating designs: recycled composite, galvanised steel or stainless steel

= DESIGN FLEXIBILITY

LOW WEIGHT ENSURES EASY HANDLING ON SITE

- significantly lighter than channels made of mineral material
- especially easy to transport and process

= COST SAVINGS

HIGH-QUALITY MATERIAL

- robust and unbreakable
- elastic and especially resistant recycled composite
- withstands the passage of cars

= QUALITY & PERFORMANCE ASSURED

QUICK INSTALLATION

- easy to process
- tongue and groove system for immediate laying
- direct paving possible

= COST SAVINGS

LOCKING MECHANISM

- boltless locking by safe clamping

= PERFORMANCE ASSURED

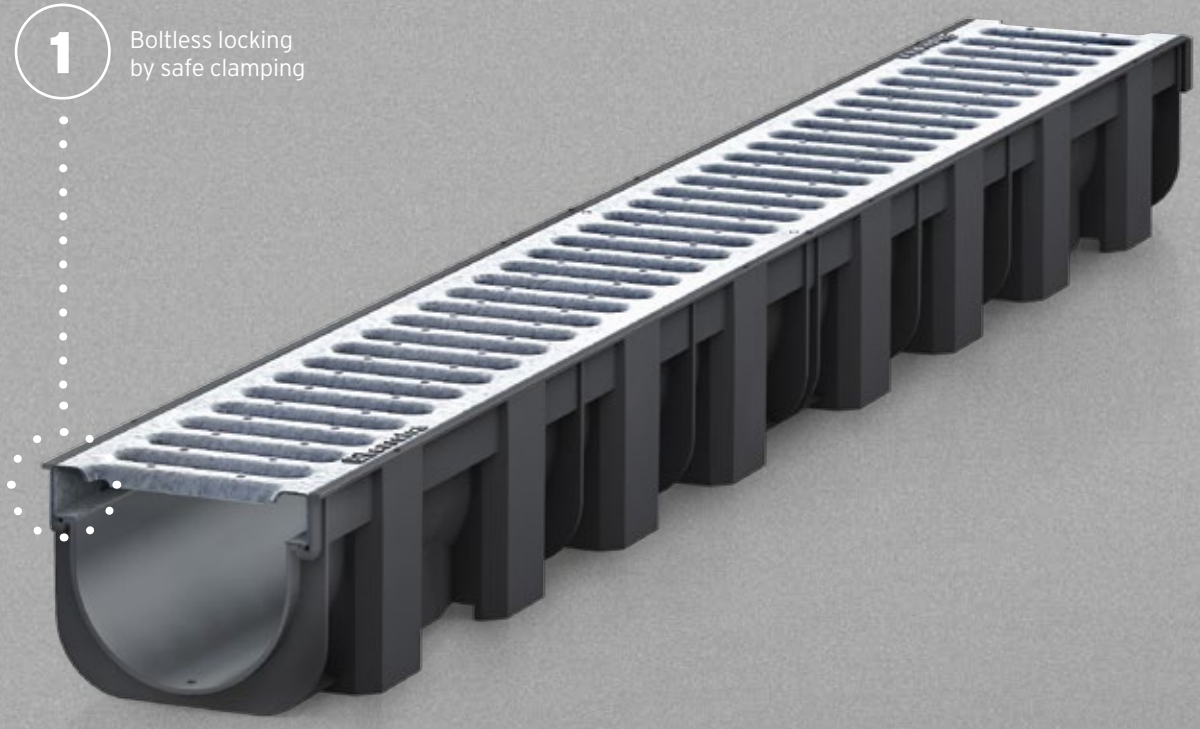
ROUND CHANNEL

- better hydraulic performance

= PERFORMANCE ASSURED

IDEAL FOR ...

applications such as private driveways, courtyards, patios and gardens.



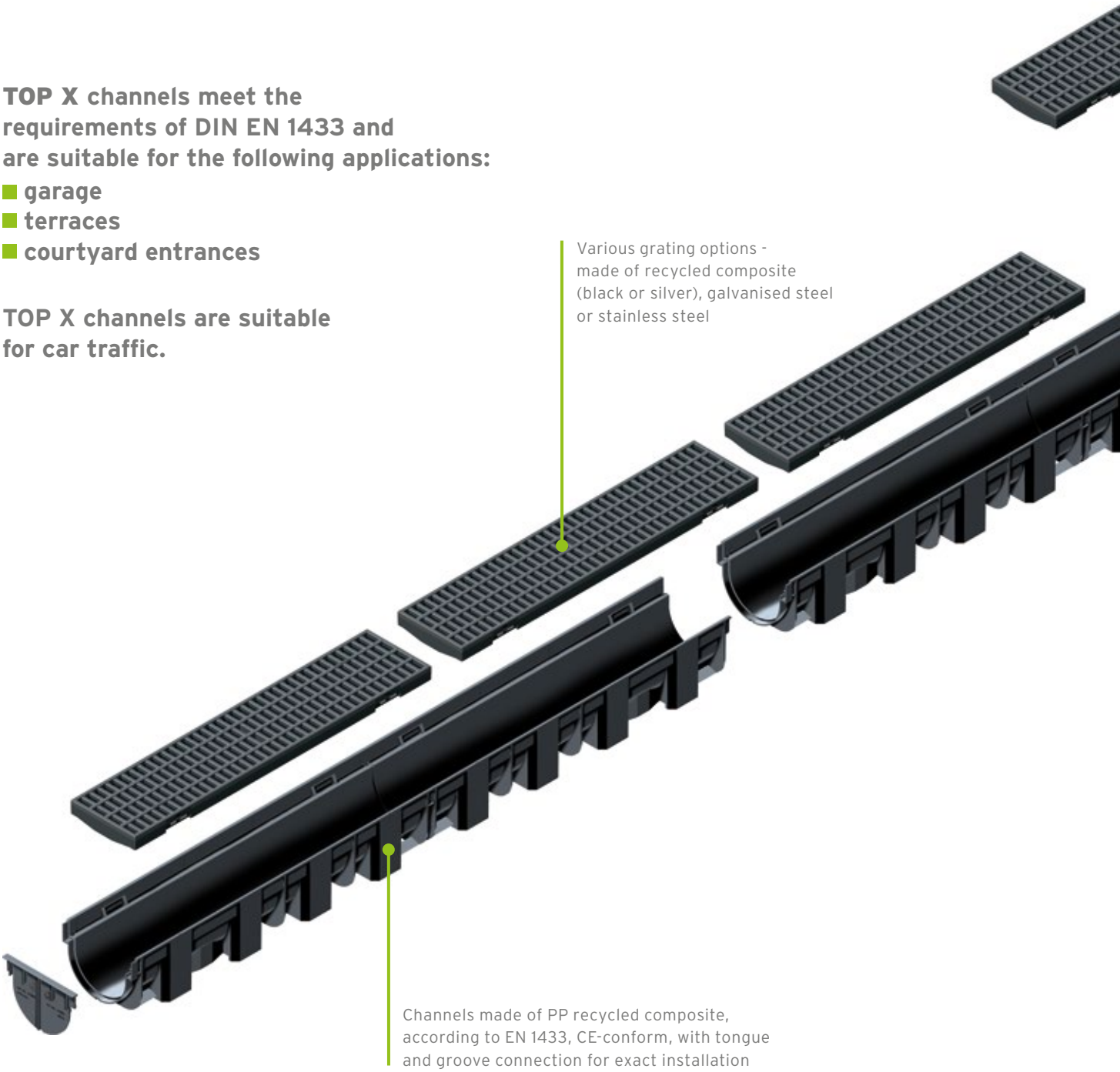
TOP X

The drainage channel for private driveways, courtyards, patios and gardens.

TOP X channels meet the requirements of DIN EN 1433 and are suitable for the following applications:

- garage
- terraces
- courtyard entrances

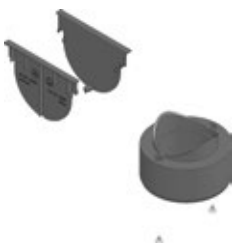
TOP X channels are suitable for car traffic.



Gratings made of recycled composite or stainless steel are 100% corrosion free.

Complete accessories with assembly instruction: (available in black or silver)

for **TOP X** channel



Connection set for channel with end caps, adapter, black, including assembly instruction, Item No. 44340

Connection set for channel with end caps, leaf trap, adapter, foul air trap, black, including assembly instruction, Item No. 44343

for **TOP X** universal box

TOP X universal box as corner unit, including assembly instruction Item No. 44360

TOP X universal box, black, with connection set, end caps, leaf trap, foul air trap, including assembly instruction Item No. 44346

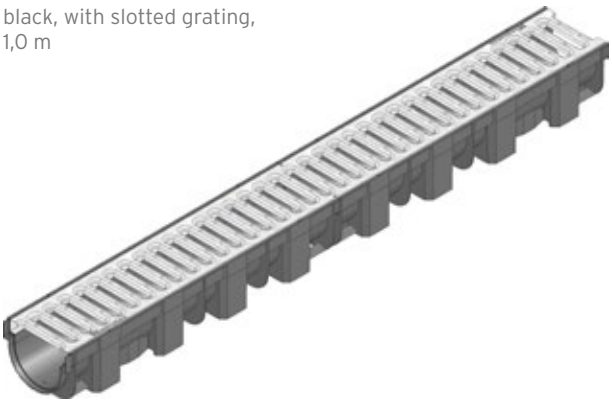
Foul air trap for TOP X universal box, Item No. 44349

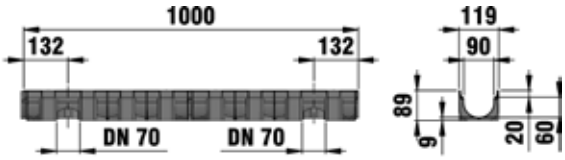
TOP X

Combi article

TOP X, Combined article, composite channel with grating, **class A 15**

black, with slotted grating, 1,0 m





	Length mm	Width mm	Height mm	Internal channel cross-sect. cm²	Intake cross-sect. cm²/m	Weight kg	Item-No. galvanised	Item-No. stainless steel
black, with slotted grating, 1,0 m	1000	119	89	45	256	2,03	44300	44303
silver, with slotted grating, 1,0 m	1000	119	89	45	256	1,90	44332	44333
black, with mesh grating MW 8/21 mm, made of PP, black, 1,0 m	1000	119	89	45	509	1,63	44320	-
silver, with mesh grating MW 8/21 mm, made of PP, silver, 1,0 m	1000	119	89	45	509	1,62	44325	-
black, with slotted cover, made of PP, black, 1,0 m	1000	119	-	-	-	1,55	44335	-

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

Accessories

TOP X, accessories

TOP X universal box as corner unit, black, inclusive assembly instruction

Connection set for channel with 2 end caps, adapter, silver, inclusive assembly instruction

Connection set for channel with 2 end caps, adapter, foul air trap, silver, inclusive assembly instruction

TOP X universal box, black, with connection set, end caps, leaf trap, foul air trap, inclusive assembly instruction

	Length mm	Width mm	Height mm	Weight kg	Item No.
TOP X universal box as corner unit, black, inclusive assembly instruction	137	137	125	0,25	44360
TOP X universal box as corner unit, silver, inclusive assembly instruction	137	137	125	0,24	44365
Connection set for channel with 2 end caps, adapter, black, inclusive assembly instruction	-	-	-	0,13	44340
Connection set for channel with 2 end caps, adapter, silver, inclusive assembly instruction	-	-	-	0,13	44341
Connection set for channel with 2 end caps, leaf trap, adapter, foul air trap, black, inclusive assembly instruction	-	-	-	0,55	44343
Connection set for channel with 2 end caps, adapter, foul air trap, silver, inclusive assembly instruction	-	-	-	0,47	44344
TOP X universal box, black, with connection set, end caps, leaf trap, foul air trap, inclusive assembly instruction	-	-	-	0,72	44346
TOP X universal box, silver, with connection set, end caps, leaf trap, foul air trap, inclusive assembly instruction	-	-	-	0,72	44347
Foul air trap for TOP X universal box	-	-	-	0,14	44349
TOP X access cover for slotted grating, galvanised	500	124	58	500	44390

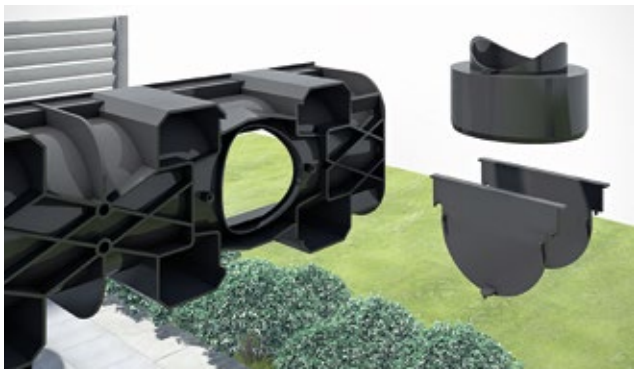
TOP X

Quick and easy installation

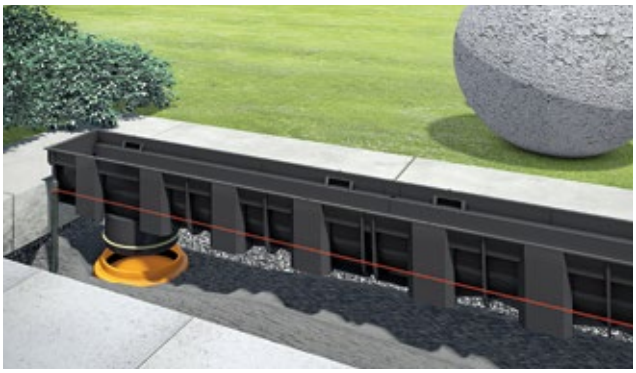
Produce trench in which to lay channel with frost resistant sub base.

Fill with concrete and compress to foundation.

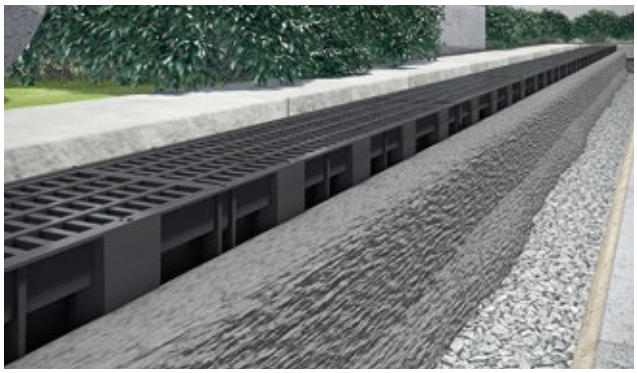
Produce connection openings.



Fit accessories.



Lay channels.



Haunch the concrete.

Install surface coating.

TOP X installation videos.

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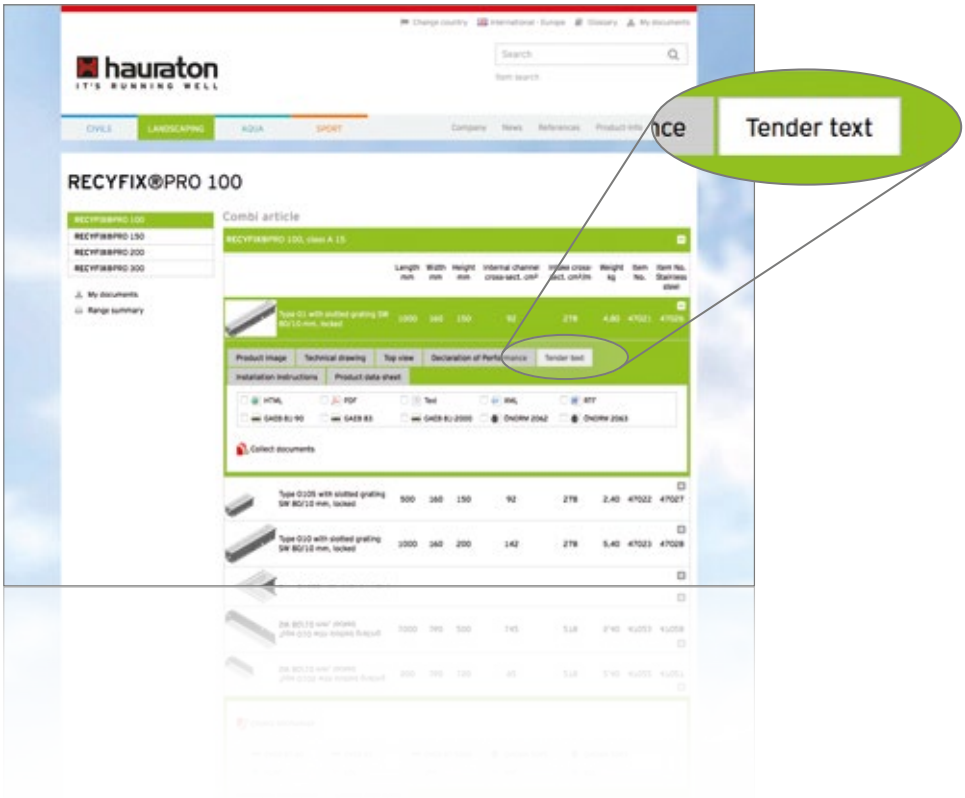
1 Go to the product page.

- Choose your item.



2 Choose required format and add it to your documents

3 Download tender text

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Resistance list **RECYFIX**

	Medium	Concentration	**RECYFIX** at 20° C
A	Acetic acid		+
	Acetone		+
	Ammonia solution	25 %	+
	Apple juice		+
B	Battery acid (H_2SO_4)	25 %	-
	Beer		+
	Brake fluid		+
C	Calcium hydroxide	s. a. l.	+
	Chloric acid		+
	Chlorinnated water*	1,0 mg/l (free chlorine)	+
	Cold cleaning medium		+
D	Diesel fuel		+
E	Engine oil		+
	Ethanol		+
F	Fats		+
	Formic acid		+
	Fruit acids		+
	Fruit juices		+
G	Glucose		+
	Glue		+
	Glycol	25 %	+
H	Heating oil EL (Diesel)		+
	Hydraulics oil		+
	Hydrochloric acid	37 %	+
I	Isopropyl alcohol		+
L	Lemonade		+
	Lubricating grease		+
M	Machine oils		+
	Margarine		+
	Milk		+
	Mineral oil		+
	Molasses		+
N	Nutritive salts	aqueous solution	+
P	Petrol		+
	Petrol 95 - 98 octane		+

	Medium	Concentration	**RECYFIX** at 20° C
S	Sea water		+
	Sea water		+
	Sodium hydroxide	10 - 20 %	+
	Sugar		+
U	Urea		+
V	Vegetable fats		+
	Vegetable oils		+
W	Wine		+

\+ = permanently resistant
/ = temporarily resistant
\- = not resistant
g. w. L.= saturated aqueous solution
max. 72 h each exposure, then cleaning

The information on the chemical resistance of HAURATON products is valid for non-displaced media and average expected outside temperatures in Central Europe. Temperature, concentration and exposure time are highly relevant for chemical resistance. Please note our (temperature) specifications in the table. In case of uncertainty, we recommend checking the suitability of the materials by means of samples within the scope of application. Further information is available on request from our technical department.

HAURATON drainage channels made of polypropylene (PP) described above are highly resistant to diluted acids and alkalis. They are also resistant to de-icing salt used in winter maintenance operations. If necessary, the suitability of the grating and angle housing material in contact with corrosive media should be checked. Gratings and angle housings made of stainless steel, made of CNS 1.4301 or CNS 1.4571, are generally resistant to corrosion.

All information on application technology which we pass on personally, in writing or as part of tests is given to the best of our knowledge. In reality, however, the complexity of the use or the complete transmission of information by the customer is not within our sphere of influence. Therefore, we cannot assume any liability. Of course, we assure you that the high quality of our products fully complies with our General Terms and Conditions.

* Supplement to the resistance with respect to chemicals containing chlorine:
HAURATON products are generally not suitable for use as flow-off channels in swimming pools. We do not produce (flanged) sealed channel systems that are suitable as flow-off channels or liquid-tight channels.

Resistance list **FIBRETEC**

	Medium	Concentration	**FIBRETEC** at 20° C
A	Acetic acid		/-
	Acetone		+
	Ammonia solution	25 %	+
	Apple juice		+
B	Battery acid (H_2SO_4)	25 %	-
	Beer		+
	Brake fluid		+
C	Calcium hydroxide	s. a. l.	+
	Chloric acid		/
	Chlorinnated water*	1,0 mg/l (free chlorine)	/
	Cold cleaning medium		+
D	Diesel fuel		+
E	Engine oil		+
	Ethanol		+
F	Fats		+
	Formic acid		/
	Fruit acids		+
	Fruit juices		+
G	Glucose		+
	Glue		+
	Glycol	25 %	/
H	Heating oil EL (Diesel)		+
	Hydraulics oil		+
	Hydrochloric acid	37 %	-
I	Isopropyl alcohol		+
L	Lemonade		+
	Lubricating grease		+
M	Machine oils		+
	Margarine		/
	Milk		+
	Mineral oil		+
	Molasses		/
N	Nutritive salts	aqueous solution	+
P	Petrol		+
	Petrol 95 - 98 octane		+
S	Sea water		+
	Sea water		+
	Sodium hydroxide	10 - 20 %	+
	Sugar		+
U	Urea		+
V	Vegetable fats		+
	Vegetable oils		/
W	Wine		/

+ = permanently resistant, / = short-term stable, – = not resistant
s. a. l. = saturated aqueous solution

\+ = permanently resistant
/ = temporarily resistant
\- = not resistant
g. w. L.= saturated aqueous solution
max. 72 h each exposure, then cleaning

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Resistance list **Stainless Steel 1.4301**

	Medium	Concentration	**Stainless Steel 1.4301** at 20° C
A	Acetic acid		+
	Acetone		+
	Ammonia solution	25 %	+
	Apple juice		+
B	Battery acid (H_2SO_4)	25 %	+
	Beer		+
	Brake fluid		+
C	Calcium hydroxide	s. a. l.	+
	Chloric acid		-
	Chlorinnated water*	1,0 mg/l (free chlorine)	/
	Cold cleaning medium		+
D	Diesel fuel		+
E	Engine oil		+
	Ethanol		+
F	Fats		+
	Formic acid		+
	Fruit acids		+
	Fruit juices		+
G	Glucose		+
	Glue		+
	Glycol	25 %	+
H	Heating oil EL (Diesel)		+
	Hydraulics oil		+
	Hydrochloric acid	37 %	/
I	Isopropyl alcohol		+
L	Lemonade		+
	Lubricating grease		+
M	Machine oils		+
	Margarine		+
	Milk		+
	Mineral oil		+
	Molasses		+
N	Nutritive salts	aqueous solution	+
P	Petrol		+
	Petrol 95 - 98 octane		+

	Medium	Concentration	**Stainless Steel 1.4301** at 20° C
S	Sea water		+
	Sea water		+
	Sodium hydroxide	10 - 20 %	+
	Sugar		+
U	Urea		+
V	Vegetable fats		+
	Vegetable oils		+
W	Wine		+

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/ = temporarily resistant
\- = not resistant
g. w. L.= saturated aqueous solution
max. 72 h each exposure, then cleaning

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Resistance list **Stainless Steel 1.4571**

	Medium	Concentration	**Stainless Steel 1.4571** at 20° C
A	Acetic acid		+
	Acetone		+
	Ammonia solution	25 %	+
	Apple juice		+
B	Battery acid (H_2SO_4)	25 %	+
	Beer		+
	Brake fluid		+
C	Calcium hydroxide	s. a. l.	+
	Chloric acid		-
	Chlorinnated water*	1,0 mg/l (free chlorine)	/
	Cold cleaning medium		+
D	Diesel fuel		+
E	Engine oil		+
	Ethanol		+
F	Fats		+
	Formic acid		+
	Fruit acids		+
	Fruit juices		+
G	Glucose		+
	Glue		+
	Glycol	25 %	+
H	Heating oil EL (Diesel)		+
	Hydraulics oil		+
	Hydrochloric acid	37 %	/
I	Isopropyl alcohol		+
L	Lemonade		+
	Lubricating grease		+
M	Machine oils		+
	Margarine		+
	Milk		+
	Mineral oil		+
	Molasses		+
N	Nutritive salts	aqueous solution	+
P	Petrol		+
	Petrol 95 - 98 octane		+

	Medium	Concentration	**Stainless Steel 1.4571** at 20° C
S	Sea water		+
	Sea water		+
	Sodium hydroxide	10 - 20 %	
	Sugar		+
U	Urea		+
V	Vegetable fats		+
	Vegetable oils		+
W	Wine		+

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/ = temporarily resistant
\- = not resistant
g. w. L. = saturated aqueous solution
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Rainwater Management in Sports Facility Construction

Application Areas and Systems

Table of contents

Rainwater management in sports facility construction — page 4

Application Overview — page 6

Car parks and traffic routes
Stadium buildings and stands
Pitch and running track

Product Overview — page 14

Athletics — page 16

SPORTFIX SLOTTED CHANNEL with aluminium track curbing
SPORTFIX SLOTTED CHANNEL with white blind cover
SPORTFIX PRO
SPORTFIX CLEAN
SPORTFIX Sand Trap Channels and **SPORTFIX Soft Kerbs**
SPORTFIX Water Jumps and **Hurdles**

Football — page 34

SPORTFIX CLEAN
SPORTFIX PRO

Hockey — page 38

SPORTFIX CLEAN
SPORTFIX ROM

Play and multipurpose areas — page 42

Other sports — page 44

Cable management — page 46

Service and Certificates — page 48

Sustainability — page 50

To all sports facility planners:

Get ready for your next project.

Sport inspires, moves and brings people together - in the sun as well as in the rain. To ensure that sports fields, stadiums and leisure facilities remain usable at all times, our solutions ensure safe and sustainable rainwater management.

With **HAURATON**, associations, planners and municipalities rely on innovation, quality and experience. In this way, we provide the basis for sport to take place at any time – today and in the future.

„The SPORTFIX SLOTTED CHANNEL is a perfect system for the sports sector - discreet and highly efficient. The result is a really super precise finish."

Katherine Haddock, GRAF Australia

Sports facilities place the highest demands on functionality, durability and safety – both for athletes and operators. Whether artificial turf pitch, athletics facility or stadium environment: Each area brings with it individual challenges for the planning and implementation of sustainable rainwater management.

Robust, low-maintenance surfaces, increasing sealing and more frequent heavy rainfall events make it necessary not only to drain water quickly, but also to treat it in a targeted manner, allow it to seep away locally or retain it and use it, for example, for green irrigation (watering).

This catalogue provides you with a basis for decision-making for your sports project. Let yourself be inspired and get fit for your next job.

Rainwater Management in Sports Facility Construction

The planning and construction of sports facilities require special solutions for rainwater management.

What should be considered?

New construction measures or conversions with drainage systems are often associated with a corresponding permit under water law. The responsible water authority checks whether the rainwater drainage complies with the regulations. In the past, rainwater was simply discharged into the sewer system, but today this is to be avoided. According to the Water Resources Act, connections to the combined sewer are particularly unacceptable (§60 WHG 2009, valid since 1 March 2010). The state water laws of the federal states and the local wastewater statutes of the municipalities have been adapted accordingly. If a product is used for rainwater treatment, then this must be at least equivalent to an overgrown soil zone (DWA-A 138-1 or DWA-A 102).

As with all wastewater, the WHG consistently requires state-of-the-art technology for the discharge of rainwater. Comprehensive rainwater management means keeping an eye on all functions: fast and safe drainage, the purification of contaminated surface water, targeted retention to relieve the sewer system and infiltration on site – for example in combination with infiltration swales or underground storage elements. For modern sports facilities, this results in flexible requirements for the systems used – depending on the type of area, use and load.

Rainwater management at sports facilities – a special discipline

What makes rainwater management in the sports sector so special compared to other applications? In addition to the general challenges posed by rainwater, additional factors must be taken into account in sport:

1. Risk of injury
A minimised risk of injury means that playing surfaces must be made dry and safe quickly – without disturbing obstacles.

2. A fair playing field
In order for athletes to be able to compete under the same conditions at different times of the day, the drainage system must function reliably and consistently.

3. Time availability of the playing field and track
Time is a decisive factor: match schedules, athletes' recovery phases, TV broadcasts and fan expectations require a rapid restoration of usability after rainfall.

4. Marking
Drainage systems should either be discreetly inconspicuous, or serve as markings with an appropriate cover.

5. Design
In the case of new buildings or renovations, an aesthetically pleasing solution is required that blends harmoniously into the respective sports facility. Covers play a central role here – more on this on page 9.

6. Hydraulic complexity
Façades, stands, sloping surfaces and typical sports obstacles such as water jumps make drainage challenging. In addition, vehicles such as ambulances, delivery vehicles or lawnmowers must be able to drive on the areas.

HAURATON offer solutions for all load classes:

7. Sensitive surfaces
The sports surface is often sensitive and expensive and must be protected. An efficient drainage system extends the life of the pitch or surface covering and reduces maintenance costs.

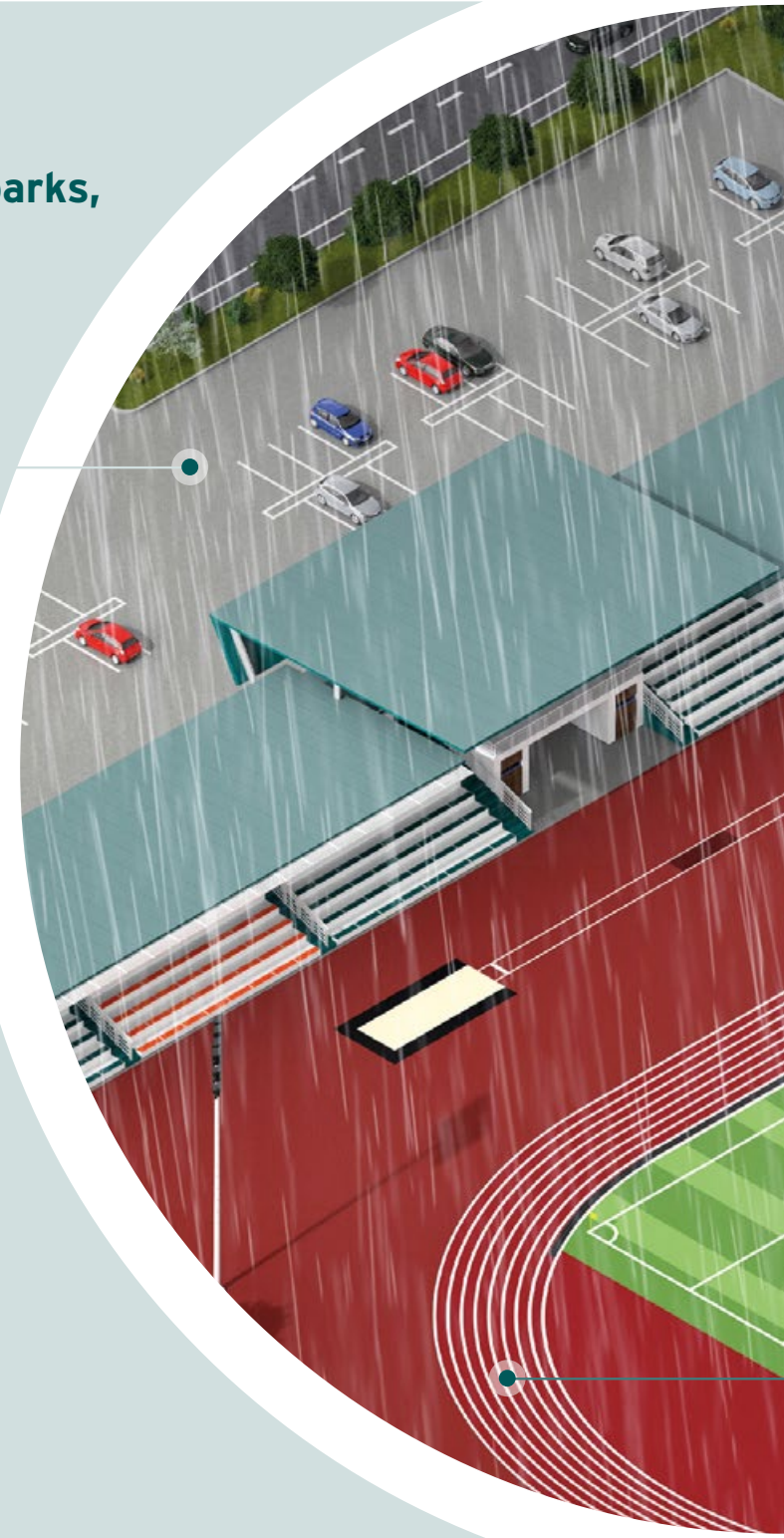
8. Water consumption
Watering natural turf and green areas or irrigating hockey pitches consumes a lot of water. If rainwater is collected as a resource and made available for reuse, large quantities of drinking water can be saved.

Safely draining rainwater with drainage solutions from **HAURATON**

Rainwater Management in Sports Facilities

Car parks, underground car parks, and traffic routes

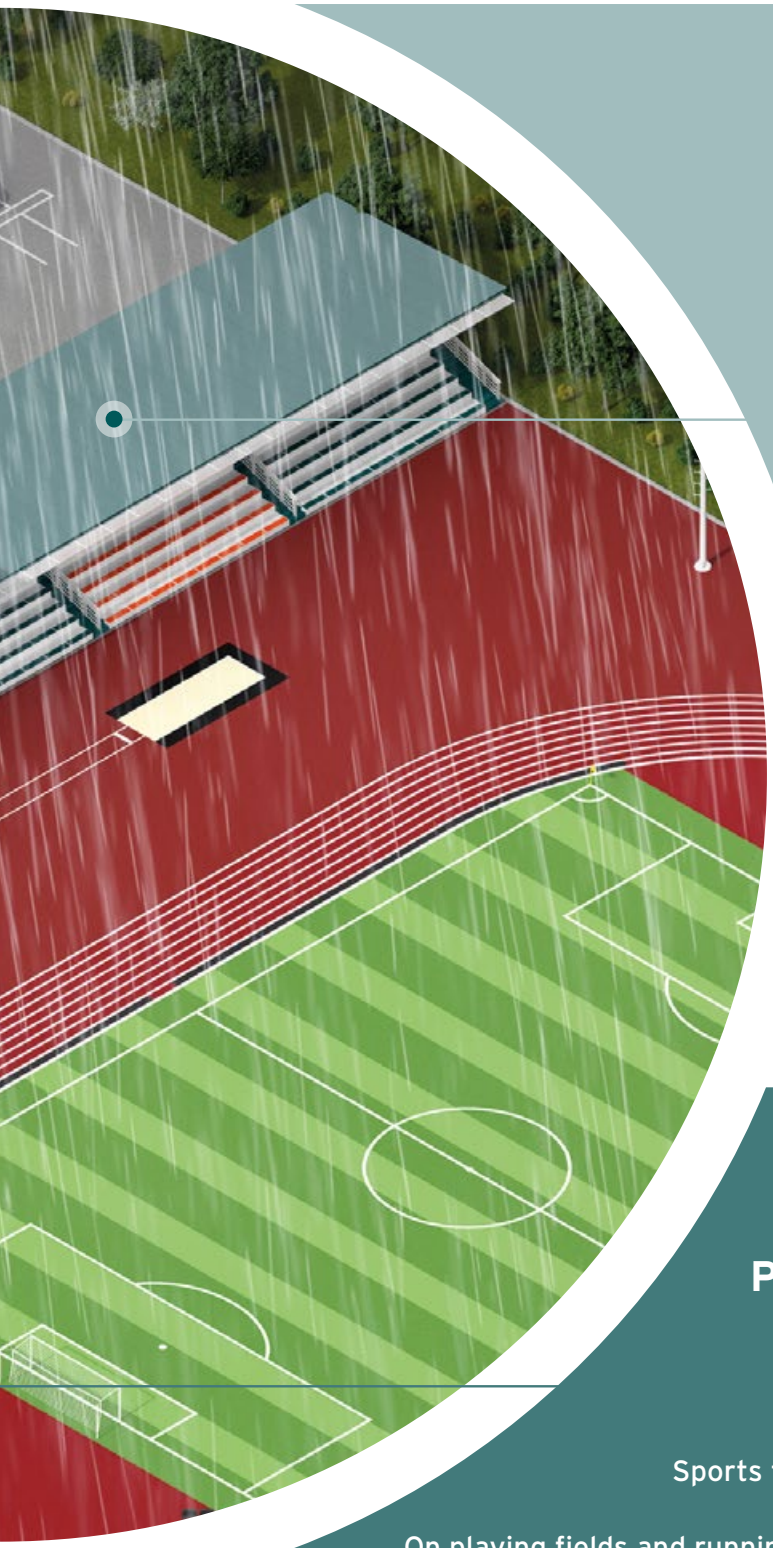
Car parks, underground car parks and traffic routes place high demands on drainage and construction methods. Weather, moisture, corrosive substances and low installation heights require robust systems. The aim is protection, functionality and sustainability – even in extreme weather.



Challenges:

- Large sealed areas
- High force impact
- Impurities
- Steep gradients
- Accessibility

Rainwater management includes all measures for the controlled drainage, storage, infiltration, purification and use of rainwater. The aim is to return water to the natural cycle and to reduce negative impact on the environment and infrastructure.



Stadium building and stands

The drainage of facades and stands has special requirements. Low installation heights and standards must be observed. Barrier-free solutions require threshold-free, corrosion-resistant, durable systems with careful planning.

Accessibility

DIN 18040

Flat Roof Directive

DIN 18531–18533

Playing field and running track

Sports field construction **DIN 18035**

On playing fields and running tracks, rainwater must be drained quickly, safely and over a large area. Systems should retain microplastics and sand particles, protect elastic coverings and be sustainably resilient. Accessibility, surefootedness and World Athletics standards are mandatory.

Car parks, Underground Car Parks, and Traffic Routes

Arrive safely, no matter what the weather.

Car parks and parking decks

Exposed parking spaces are not only continuously exposed to the weather, but are also particularly heavily frequented. In the case of parking surface drainage, a distinction must be made between external parking decks that are exposed to the weather and those that are located on the inside, which are protected from the weather. In both cases, frequently occurring moisture and heavy use play a major role.

Special requirements are:

- High thrust and shear forces
- Contaminated rainwater
- Handling of corrosive substances

DRAINFIX CLEAN

Filter substrate channel for rainwater treatment

DRAINFIX BLOC

Infiltration storage unit for heavily trafficked areas

Find out more on our application page.

hauraton.com/en-int/application-areas/parking/

Underground car parks

The amount of water in underground car parks usually results from dripping and melting water, which is caused by moving vehicles into the underground car park. The amount of water produced depends on various factors. Without a correctly planned and safely installed drainage system, there is a risk of damage to the building structure. These can occur after just a few years and lead to a loss of static stability in the long term.

Special requirements are:

- Handling of corrosive substances
- Low installation heights
- Gradient due to entrance and exit ramps

Transport routes

On heavily frequented areas, adapted rainwater management is essential. It is a matter of correctly dimensioning the drainage system and at the same time choosing the right load class for the forces that occur.

Special requirements are:

- **Infrastructure protection:** Buildings and outdoor facilities are reliably protected against flooding and consequential damage – for safe operation even in extreme weather.
- **Sustainable cleaning:** Filter substrate channels enable infiltration or reuse after drainage.
- **Barrier-free design:** Systems are integrated in such a way that they enable unrestricted use by all people – without tripping hazards, height differences or functional restrictions.

FASERFIX PARK

Evaporation channel for multi-storey and underground car parks

RECYFIX NC

Robust composite drainage system for heavily frequented areas

Stadium Building and Stands

The excitement is rising for athletes and spectators.

Façade and stand drainage

There are various technical and structural features for the drainage of facades and stands. For example, according to the Flat Roof Directive, the drainage system must have an overall width of more than 15 cm, unless the splash water load is minimised by a roof. Low installation heights often place high demands on the product to be selected and the correct installation. In addition, the façade channel should be corrosion-resistant, as it often comes into contact with cleaning solutions.

STEELFIX SLOT D

SLOTTED CHANNEL with perfect alignment

STEELFIX REGULAR

Closed channel for standard and regular façade drainage

Find out more on our application page.

hauraton.com/en-int/application-areas/flat-roofs-and-facades/

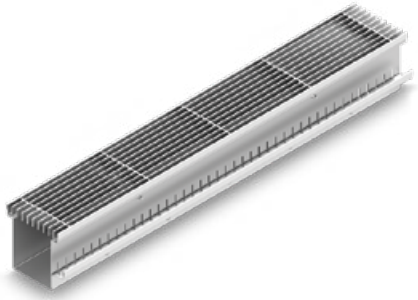
Drainage of glass façades

Glass facades are often designed as mullion-transom systems and must be drained via a drainage system. In many cases, an upstand height of 15 cm for the sealing cannot be maintained. Often it is 5 cm or less. Therefore, the glass façade, like the wooden façade, represents a special case, and drainage must be taken into account at an early stage in the planning. This is where the series of standards for building waterproofing, DIN 18531 – 18533 and the FLL guidelines come into play. The latter regulates the transition area between the open space and the building. In hydraulic calculations, façade surfaces are accounted for at 50 % of the floor surface area.

Barrier-free drainage

The barrier-free design of buildings is becoming increasingly important. DIN 18040 requires that buildings should be usable without restriction by people of all ages and with any physical limitations. This standard stipulates that the principles of accessibility must be implemented in a binding manner in all new public buildings, and private builders are also increasingly tending to choose barrier-free solutions.
Although a threshold height of no more than two centimeters is considered barrier-free, professional execution and waterproofing requires special constructions in accordance with the Flat Roof Directive. In practice, this means that various factors must be carefully taken into account when planning and executing barrier-free façade channels.

STEELFIX FLEX



Façade channel for low-lying glass facades

RECYFIX PRO with FIBRETEC

All-rounder for the drainage of sports fields and stadiums

Playing Field and Running Track

For exciting and safe competitions.

Grass pitches

Natural turf surfaces are living systems with special requirements for drainage and water retention. To ensure that the lawn remains resilient and ready to play in the long term, excess rainwater must be drained away quickly – without drying out the vegetation layer. Uniform drainage prevents waterlogging, protects the roots and ensures a stable lawn base layer. At the same time, retained rainwater can be used for irrigation in order to conserve resources and reduce maintenance costs. The drainage system must be hydraulically efficient, easy to maintain and perfectly coordinated with the lawn care system – for a natural playing surface in top shape.

Flachtank NEO

Versatile solution for sustainable rainwater retention

DRAINFIX BLOC

Infiltration and retention of large precipitation volumes

Find out more on our application page.

hauraton.com/en-int/application-areas/sport-drainage/

Artificial turf pitches

Football, hockey or multi-purpose fields with synthetic surfaces pose special requirements. The surface structure is permeable to water, but microplastics from granules, blade abrasion or fine particles from tartan surfaces can be washed out with rainwater. An integrated system for drainage and rainwater treatment helps to retain these substances and to transfer the discharge into the environment. At the same time, the rainwater management system used must be permanently efficient and mechanically resilient – in particular: with intensive sporting use and frequent cleaning of the playing surfaces.

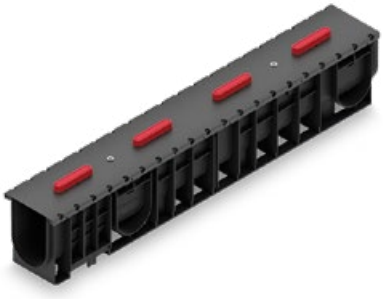
Track and field facilities

Whether it's running tracks, long jump pits or throwing areas – rainwater management must work particularly widely, quickly and safely. Water must not accumulate or cause slippery spots. Channels and associated components of the rainwater management system must be integrated in such a way that they do not undermine or damage the elastic plastic coverings – and at the same time be barrier-free and permanently non-slip. For competition-ready facilities, additional requirements according to World Athletics (WA) apply, for example with regard to the installation height and drainage performance of channels and covers.

SPORTFIX CLEAN

For the sake of the environment: microplastic filtration

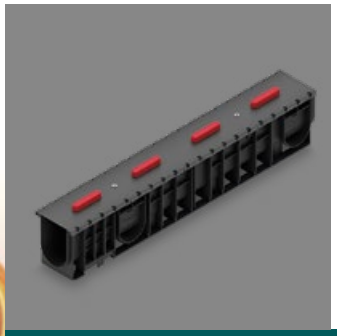
SPORTFIX SLOTTED CHANNEL



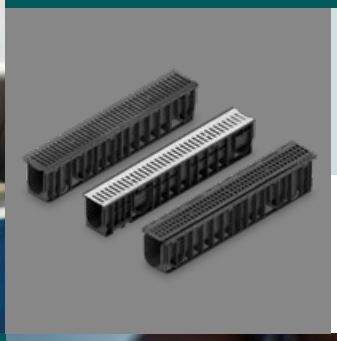
The lightweight and corrosion-free plastic drainage system

Products for a Wide Range of Sports Applications

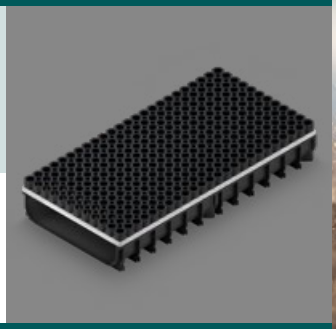
Used worldwide and consistently with high performance.



SPORTFIX SLOTTED CHANNEL –
Discreet drainage for professional sports facilities.

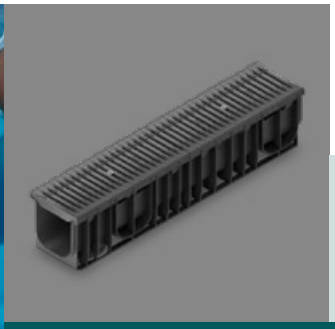


SPORTFIX channels – the ideal combination of drainage channel and mobile boundary for running tracks.



SPORTFIX Sand Trap Channels offer a secure border from other surfaces.

HAURATON supply reliable drainage systems as well as products specially designed for projects in sports facility construction, such as Sand Trap Channels and Soft Kerbs. All solutions have one thing in common: the name **SPORTFIX.**



SPORTFIX PRO – The all-rounder for the drainage of sports fields and stadiums.

SPORTFIX CLEAN – The filter substrate channel.

Track and Field

Safety & comfort for athletes.

Standards and integration into the sports facility

It is particularly important that the channels are integrated safely and without tripping hazards into the running track. These are usually laid on the inner edge of the track, often with end profiles, which at the same time form the edge of the track. A slight slope of the pavement surfaces (0.5 – 1 %) reliably directs the water into the drainage channel.

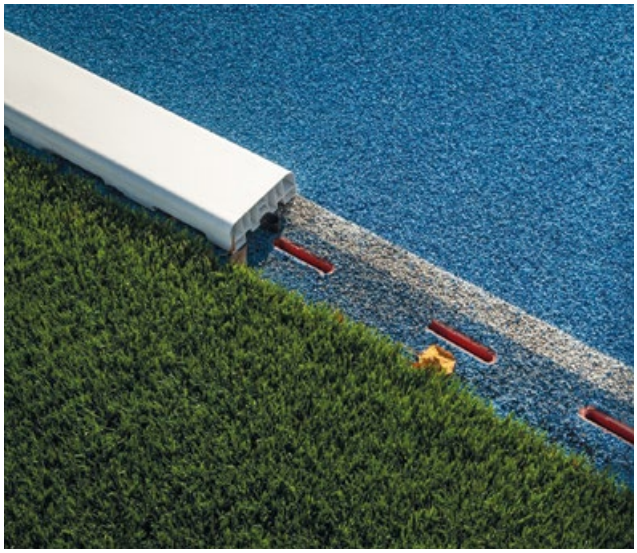
In addition to pure drainage, rainwater management is becoming increasingly important. Planners are increasingly considering systems for water retention, infiltration or reuse, for example for watering lawns. Special channel systems such as **SPORTFIX** or **RECYFIX PRO** combine functionality with sustainability and enable durable, safe and environmentally friendly solutions for modern athletics stadiums.

Requirements for channels and covers

The systems used must offer high hydraulic performance, as large amounts of water occur during heavy rainfall. For athletes, a spike-proof, flush transition is crucial to prevent injury and damage to shoes or surfaces. Gratings must be anti-slip, resistant and low-maintenance. Channel systems are not directly involved in the sporting competitions, but probably decisive for the quality of the infrastructure. For this reason, discreetly integrated systems such as **SLOTTED CHANNEL** are often chosen, which provide their performance barely visible to the user. Alternatively, drainage systems can also be integrated into the running track surfaces in terms of colour.

Checklist for planners

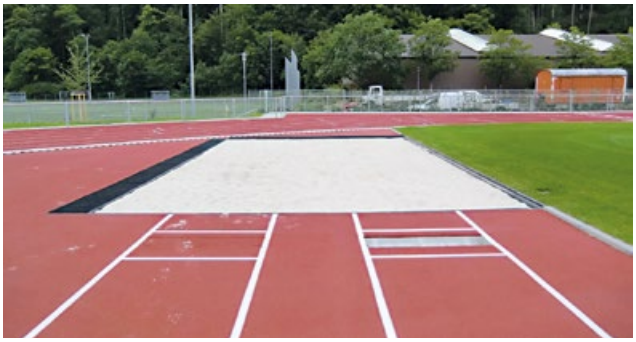
- Observe DIN 18035 + EN 1433 standards
- Plan for the running track gradient at an early stage
- Select channels with spike and trip protection
- Calculate hydraulic performance (heavy rain!)
- Integrating sustainable rainwater management



SPORTFIX SLOTTED CHANNEL installed with running track marking

Athletics Case Studies from All Over the World

With our **SPORTFIX** systems in stadiums and sports facilities around the globe, we proudly look back on a long history of successful projects and close partnerships.



Zell am Harmersbach Sports Facility, Germany

The sports facility includes a modern athletics stadium, an artificial turf pitch and additional sports and leisure areas. Drainage is carried out via a combined system of surface channels along the edges of the pitch, underground drainage and infiltration or retention elements.

Products used:

- **SPORTFIX Sand Trap Channel**
- **SPORTFIX SLOTTED CHANNEL**
- **FASERFIX KS 100**

Sport Complex on Asnyka Street in Katowice, Poland

Multifunctional facility with artificial turf, running track and training areas. Efficient drainage system ensures safe use of the pitch when it rains. Sustainable rainwater management relieves the sewer system.

Products used:

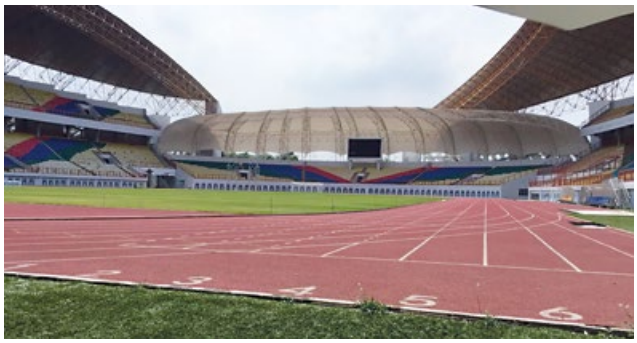
- 400 m **SPORTFIX SLOTTED CHANNEL**
- 1 piece **SPORTFIX Water Jump**
- 50 pieces of **SPORTFIX Sand Trap Channels**
- 100 m **SPORTFIX Soft Kerbs**

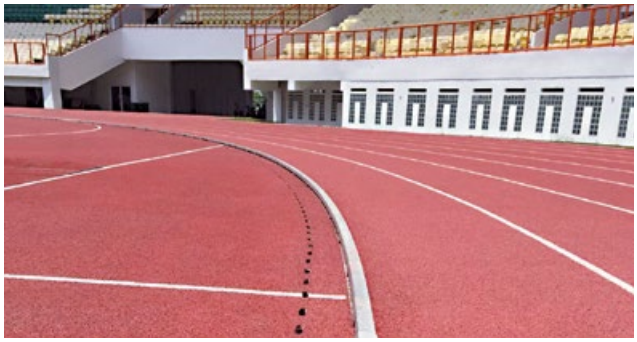
Bentinckspark Sport Complex Hoogeveen, Netherlands

The sports complex consists of a sports hall, an athletics track and a football complex.

Products used:

- **RECYFIX PRO**
- **RECYFIX STANDARD**
- **SPORTFIX Channels**





Wibawa Mukti Stadium, Indonesia

A modern multi-purpose stadium with an artificial turf football field, an athletics track, a high jump track with a run-up hill, a shot put facility, a pole vault track with a run-up hill, a sandpit with a long jump track, a baseball field with natural and sand surface, two beach volleyball courts and a multi-purpose field.

Products used:

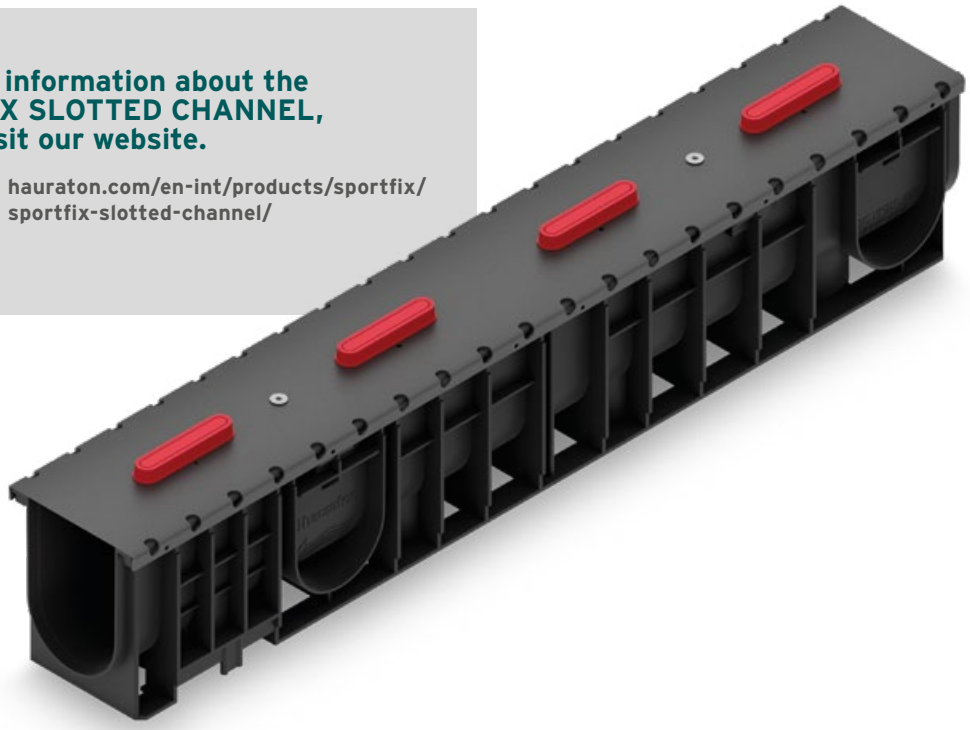
- 396 m **SPORTFIX SLOTTED CHANNEL**

SPORTFIX SLOTTED CHANNEL

The pro for stadiums and sports facilities in a class of their own.

For more information about the SPORTFIX SLOTTED CHANNEL, please visit our website.

hauraton.com/en-int/products/sportfix/sportfix-slotted-channel/



Your benefits with SPORTFIX SLOTTED CHANNELS

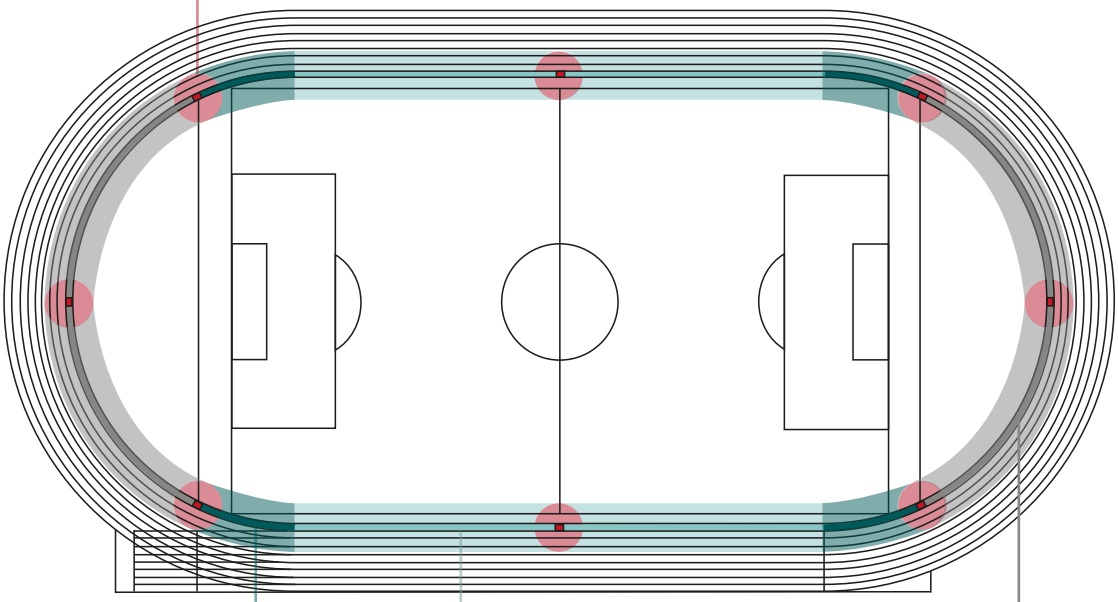
SPORTFIX SLOTTED CHANNELS ensure discreet and reliable surface drainage for running tracks. The drainage system can be used both adjacent to turf (with upstand) and with continuous running track surfacing (without upstand). The material is recycled polypropylene, which guarantees excellent durability and resistance to environmental influences.

- Can be combined with **SPORTFIX PRO** or **SPORTFIX STANDARD**
- Slot inserts made of EPDM: After laying the track surface, the slots are simply opened with a cutter knife and screwdriver.
- Optional side openings on one or both sides for the connection of a second drainage level
- Additional access points (inlet boxes) for easy maintenance
- KTL coating: this ensures the optimal connection to the running track surface
- Can be combined with white plastic track markings or aluminium blind covers

SPORTFIX SLOTTED CHANNEL integrates optimally and efficiently

Sump Unit

Optional 400 m Set
Aluminium Blind Cover



Segment	A			B			C		
Product	Channel	Sump Unit	Blind Cover	Channel	Sump Unit	Blind Cover	Channel	Sump Unit	Blind Cover
Item No.	10807	10825	10812	10807	10825	10802	10806	10825	10812
Length	1000 mm	500 mm	1000 mm	1000 mm	500 mm	1000 mm	1000 mm	500 mm	1000 mm
Height	199 mm	500 mm	96 mm	199 mm	500 mm	96 mm	184 mm	500 mm	96 mm
Weight	6.36 kg	7.19 kg	1.67 kg	6.36 kg	7.19 kg	1.67 kg	5.80 kg	7.19 kg	1.67 kg

Channels for the segment area with adjacent playing field

Channels for the segment area with adjacent playing field

Channels for the segment area (running track surface on both sides)

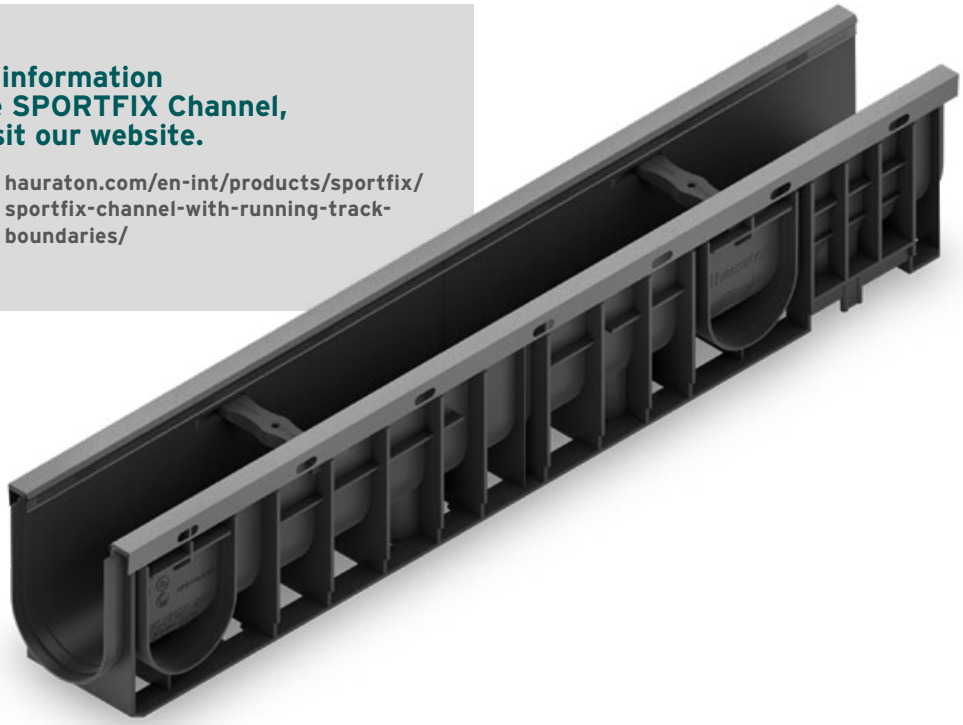
The lengths of the individual channel sections must be selected on a project-specific basis.

SPORTFIX Channel with Blind Cover

The ideal combination of drainage channel and mobile boundary for running tracks.

For more information about the SPORTFIX Channel, please visit our website.

hauraton.com/en-int/products/sportfix/sportfix-channel-with-running-track-boundaries/



SPORTFIX Channel in use

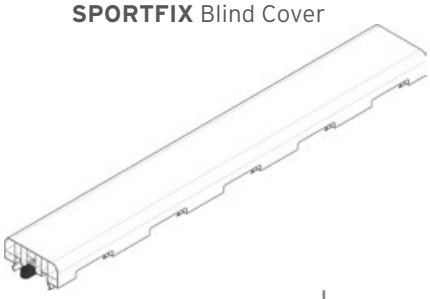
Your benefits with SPORTFIX Channel with blind cover

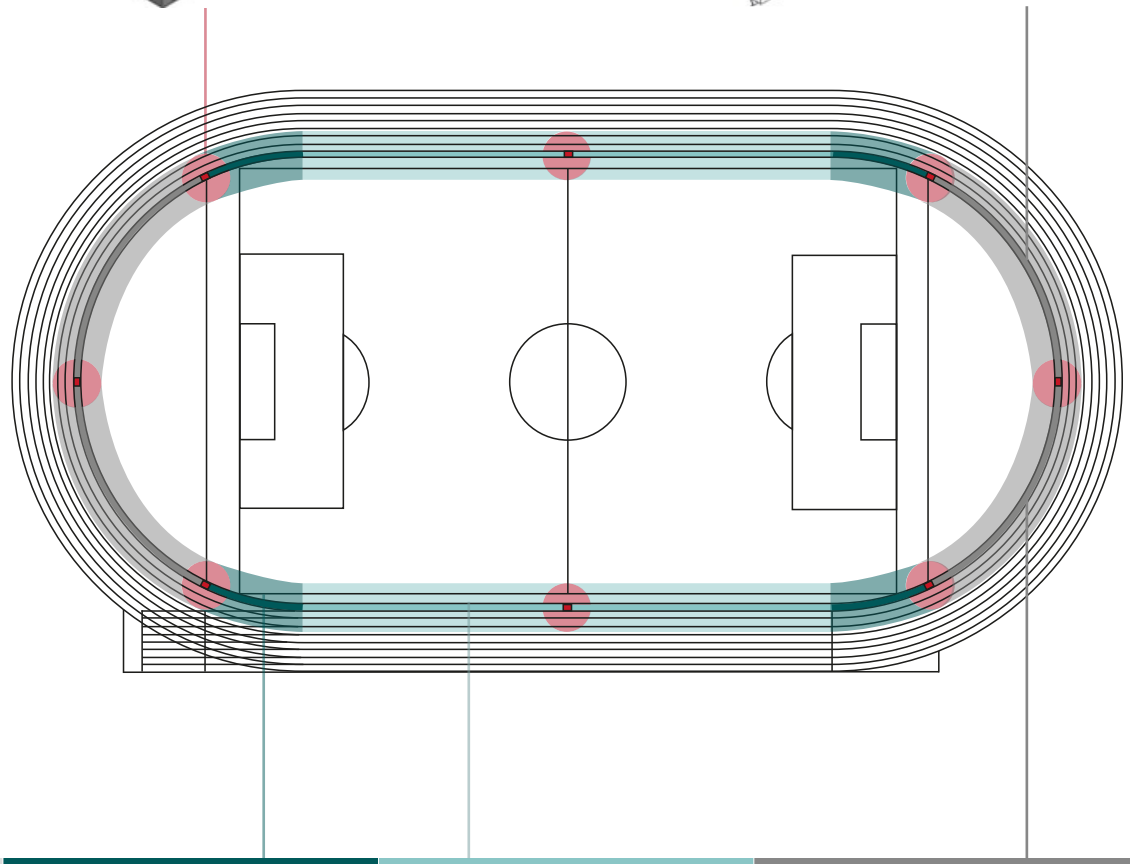
The **SPORTFIX Channel** is the classic among sports field drainage systems. As an open channel combined with a white track curbing, the channel can be used universally. The channel body made of recycled polypropylene has a long service life, is resistant to frost and is very light.

- Integrated edge frame made of KTL-coated steel for more safety
- Meets the guidelines of World Athletics
- White PVC running track marking is provided with four clips attached to the channel
- Running track markings are available as straight and curved elements in order to be laid exactly along the track

Sump Unit

SPORTFIX Blind Cover

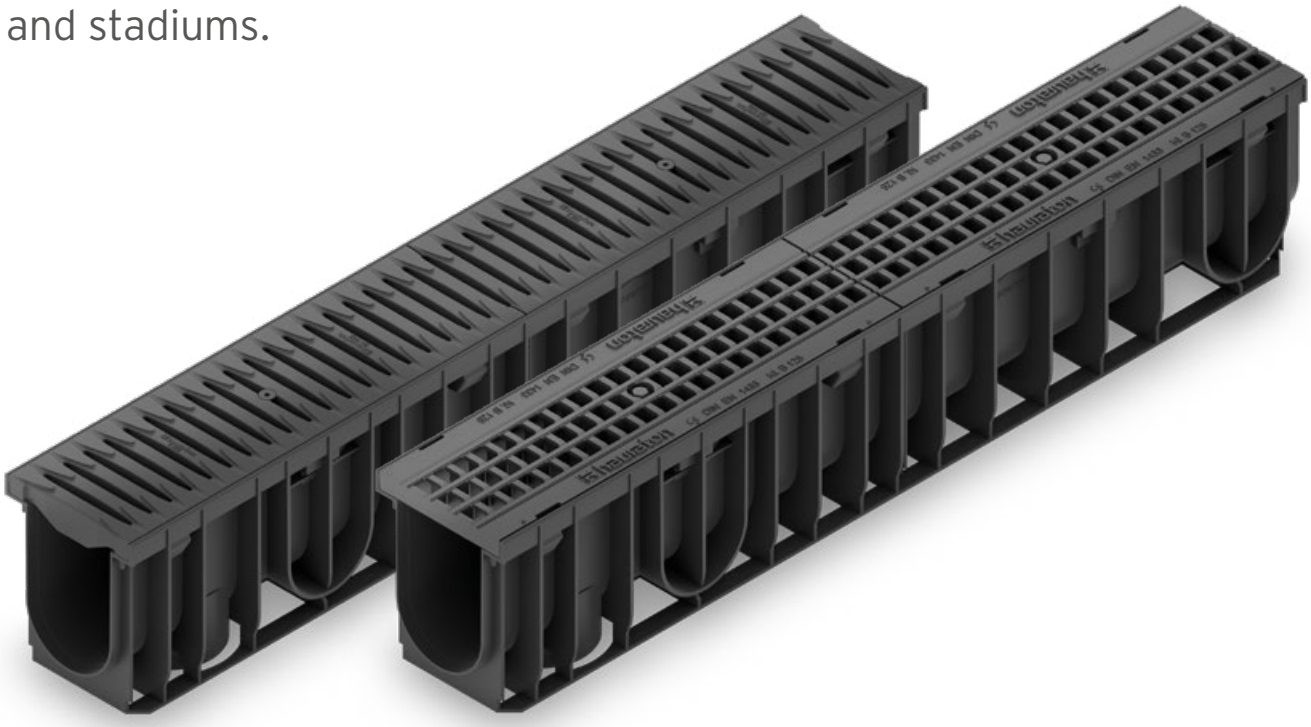


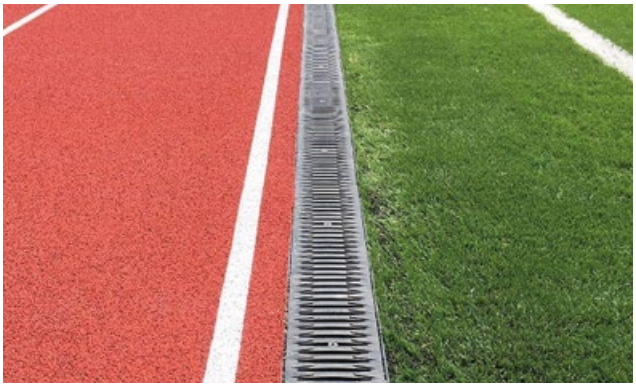


Segment	A			B			C		
Product	Channel	Sump Unit	Blind Cover	Channel	Sump Unit	Blind Cover	Channel	Sump Unit	Blind Cover
Item No.	10813	10815	10811	10803	10815	10801	10813	10815	10811
Length	1000 mm	500 mm	1000 mm	1000 mm	500 mm	1000 mm	1000 mm	500 mm	1000 mm
Height	182 mm	485 mm	70 mm	182 mm	485 mm	70 mm	182 mm	485 mm	70 mm
Weight	3.10 kg	4.36 kg	1.50 kg	3.10 kg	4.36 kg	1.50 kg	3.10 kg	4.36 kg	1.50 kg

SPORTFIX PRO with FIBRETEC Design or GUGI Composite Gratings

The all-rounder for draining sports fields and stadiums.





FIBRETEC Design mesh grating also available in many other colours

Composite GUGI mesh gratings

Your benefits with SPORTFIX PRO

The **SPORTFIX PRO** drainage system offers reliable rainwater management for a wide range of applications. The channel body made of recycled polypropylene is extremely robust, easy to transport and quick and easy to install.

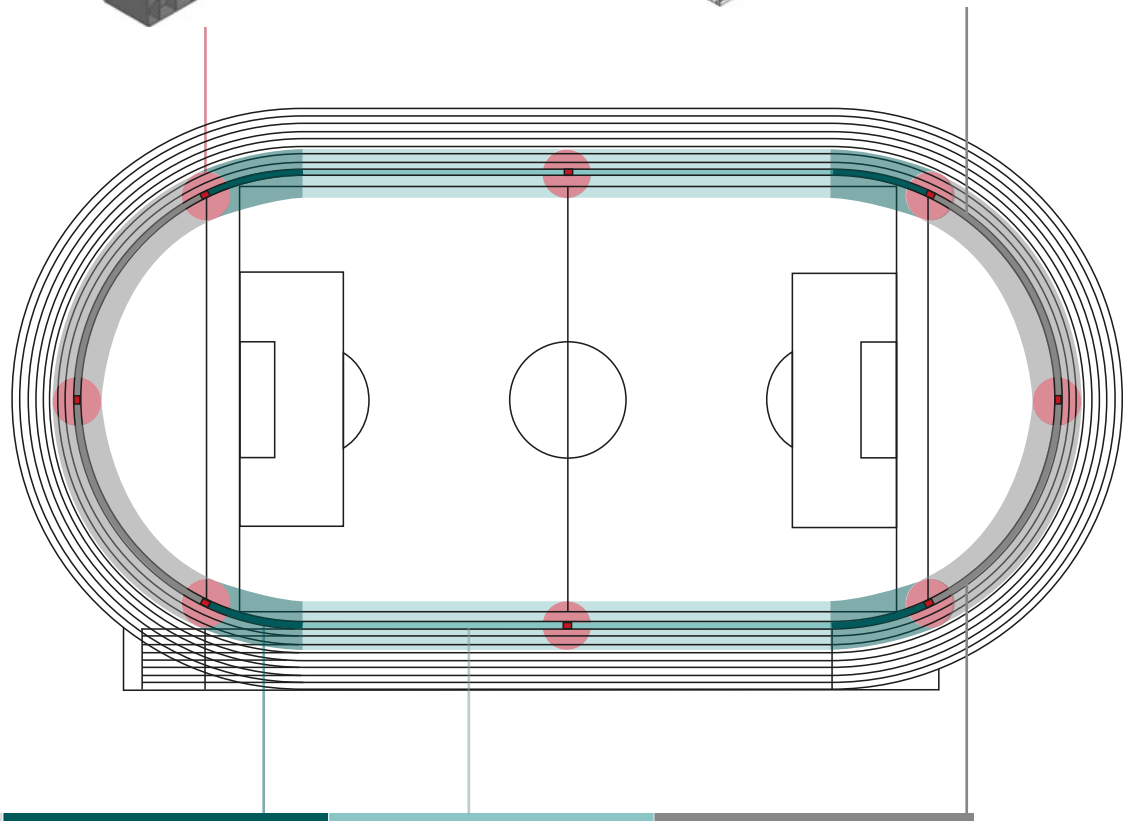
- The material is resistant to frost, de-icing salt, UV radiation and corrosion
- Integrated edge frame for greater safety
- Installation in straight and curved sections of tracks without cutting channels thanks to the tongue and groove system
- Cutting to length or angle easily possible on site

Learn more about the SPORTFIX PRO on our website.

hauraton.com/en-int/products/sportfix/sportfix-pro/

Sump Unit

Optional 400 m Set
Aluminium Blind Cover



Segment	A		B		C		
Product	Channel	Sump Unit	Channel	Sump Unit	Channel	Sump Unit	Blind Cover
Item No.	7510	7515	7510	7515	7810	10825	7085
Length	1000 mm	500 mm	1000 mm	500 mm	1000 mm	500 mm	400 m
Height	200 mm	504 mm	200 mm	504 mm	184 mm	500 mm	50 mm
Weight	4.66 kg	5.85 kg	4.66 kg	5.85 kg	5.80 kg	7.19 kg	450 kg

Channels for the segment area with adjacent playing field

Channels for the segment area with adjacent playing field

Channels for the segment area (running track surface on both sides)

The lengths of the individual channel sections must be selected on a project-specific basis.

SPORTFIX CLEAN

Rainwater treatment provided by filter substrate channel – retains microplastics from artificial turf pitches.

You can find more information about the SPORTFIX CLEAN on our website.

hauraton.com/en-int/products/surface-water-treatment/sportfix-clean/

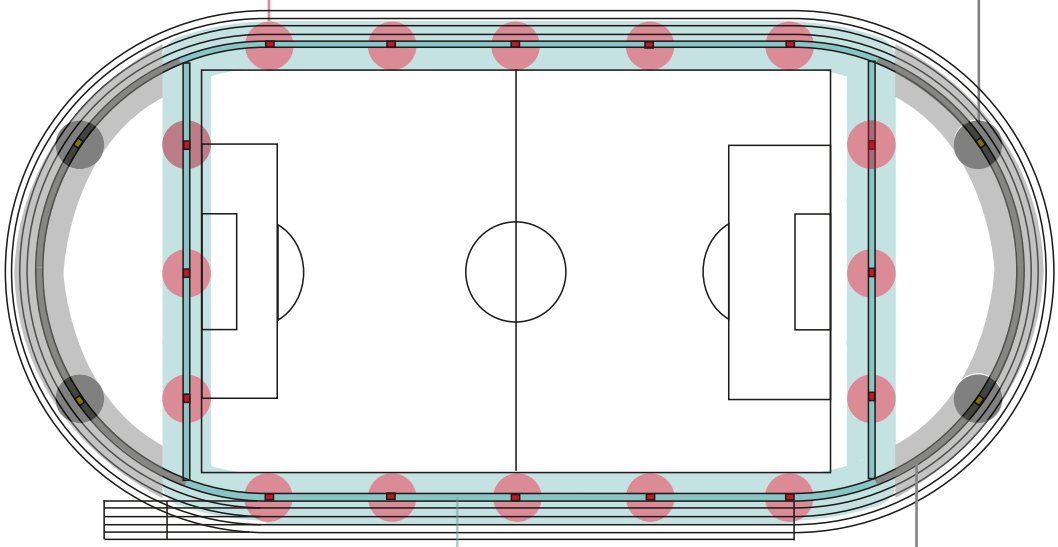
Our solution – Your benefits with SPORTFIX CLEAN

Drainage systems for artificial turf pitches must provide reliable drainage and infiltration. The infill material and broken blades of grass (= microplastics) must be collected before the water enters a sewer system or groundwater (in the event of infiltration).
The **SPORTFIX CLEAN** filter system is the effective solution for retaining microplastics and infill material on artificial turf pitches. The **CARBOTEC** filter substrate reliably filters out particles with the smallest grain sizes of up to 0.45 µm (0.00045 mm). The filter substrate consists of natural, inorganic components and reliably cleans rainwater from artificial turf pitches.

- Safe linear drainage all around the artificial turf surface
- Large filter area for absorbing particle loads (10 m^2 per 100 metres of channel run, depending on the construction of the sports field, the filter area adds up to 30 - 40 m^2)
- With compliant dimensioning, 95 % of all rain events are fully captured
- Proven cleaning performance of over 97 %
- Also available as a system with clamping for hockey turf
- Permanent retention and filtering of particulate pollutants, e.g. track abrasion as microplastics
- Low additional costs and long maintenance intervals (every 3 - 5 years the collected particles must be peeled off, the filter substrate remains intact)
- High remobilisation protection of particles trapped in the system
- Awarded the Environmental Technology Award Baden-Württemberg 2019

Sump Unit

SPORTFIX SLOTTED CHANNEL
Sump Unit



Segment	B		C		
Product	Channel	Sump Unit	Channel	Sump Unit	Blind Cover
Item No.	7702	7700	10806	10825	7085
Length	1000 mm	500 mm	1000 mm	500 mm	400 m
Height	250 mm	504 mm	184 mm	500 mm	50 mm
Weight	5.89 kg	5.28 kg	5.80 kg	7.19 kg	450 kg

SPORTFIX CLEAN
with one side of the pitch

SPORTFIX SLOTTED CHANNEL
with double-sided track

The Cleaning Principle SPORTFIX CLEAN

Every year, several tons of microplastics are washed into the ocean from artificial turf pitches.
SPORTFIX CLEAN retains artificial turf microplastics.

Important contribution to a clean environment

The demand for artificial turf sports pitches is very high: around 3,000 new pitches are built worldwide every year, 1,000 of them in Europe. Many of these pitches are filled with plastic granules, which, together with breakage and abrasion of artificial turf fibres, can enter the environment via various routes.

Microplastics in artificial turf

„Compared to natural turf pitches, artificial turf pitches offer significantly more extensive possibilities of use. Without artificial turf pitches, it would not be possible to guarantee anywhere near an adequate range of football pitches, especially in larger cities and municipalities," said the German Football Association (DFB) in a statement.

The benefits of artificial turf are numerous:

- According to the DFB, approx. 2,500 hours of use/ year on artificial turf, compared to 800 hours on natural turf
- Constant training conditions all year round (easy to clear snow in winter)
- Hardly any pitch closures due to unplayability, easy to clean and low maintenance

The problem: Plastic granules and synthetic blades of grass end up in the environment

Despite the many advantages of artificial turf pitches mentioned above, the main difference to natural turf is that different granules are added as infill materials in order to achieve the most natural playing feeling possible. These fillers and also the grass fibres themselves are distributed in the immediate vicinity of the turf pitch over the course of their useful life.
In contrast to natural lawns, they do not decompose there, but accumulate in the upper soil layers, can be carried into bodies of water and reach the groundwater.

In order to prevent most of the environmentally harmful effects of microplastic particles from artificial turf surfaces, the emissions ...

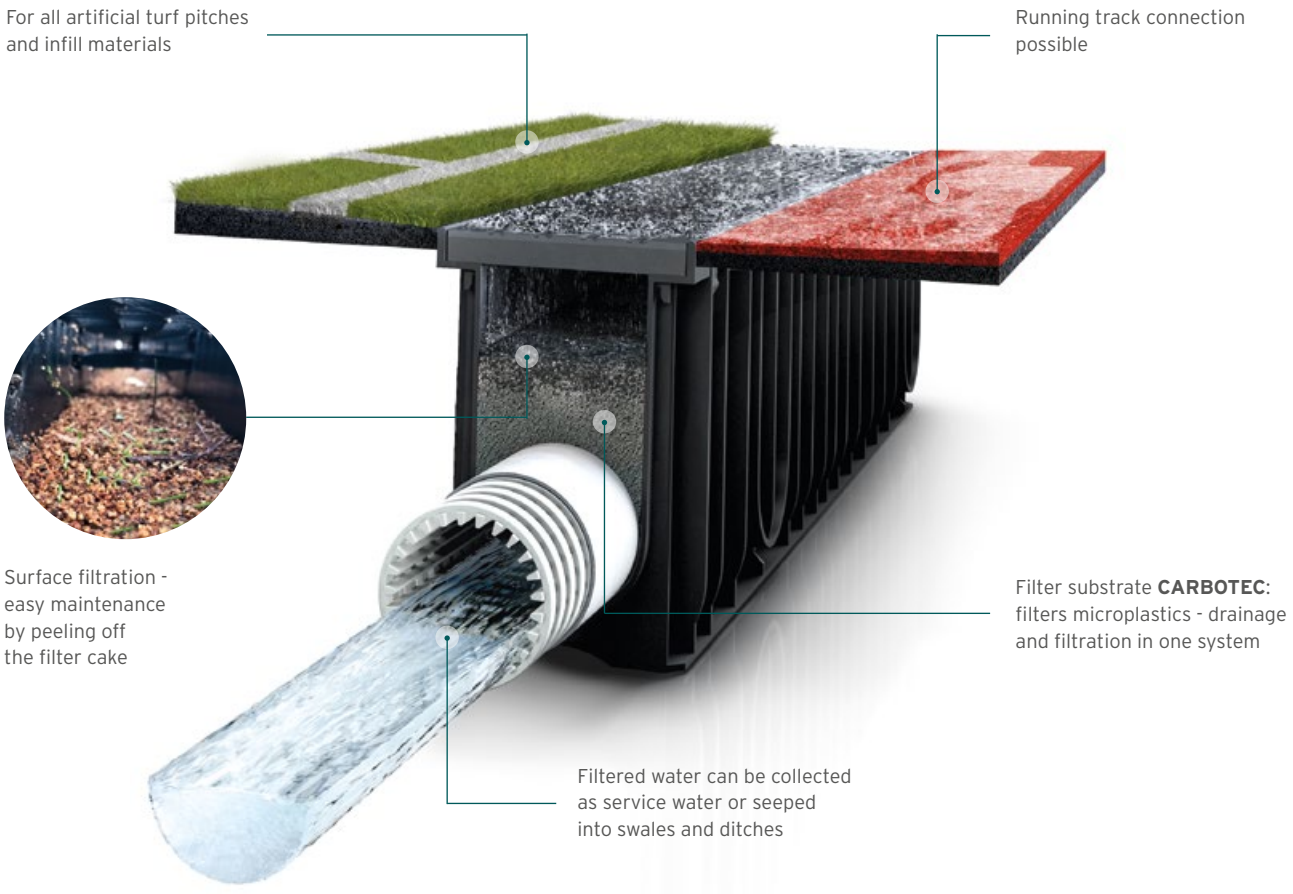
1. of the plastic/rubber granules used for infill (also known as infill material) must be minimised by means of a retention system.

2. of synthetic grass fibres, that break off due to wear and tear during play must also be retained.

Even though rubber granules are now banned as infill materials, substitute materials bring their own issues. For example, sand and olive pits increase the abrasion of turf fibres (= more discharge) and cork should not shift into the groundwater. Therefore, it makes sense to retain turf fibres and infill material in all cases.

Microplastics due to abrasion of running tracks

Microplastics are not only produced on artificial turf pitches, but also on tartan tracks in athletics. As a wear layer, EPDM granules are interspersed in a polyurethane layer.
These granules dissolve during use, especially in the first 1 - 2 years of use, and are carried by rain into the adjacent areas. It is therefore important to create appropriate retention options here as well to retain microplastics from water bodies and the environment.

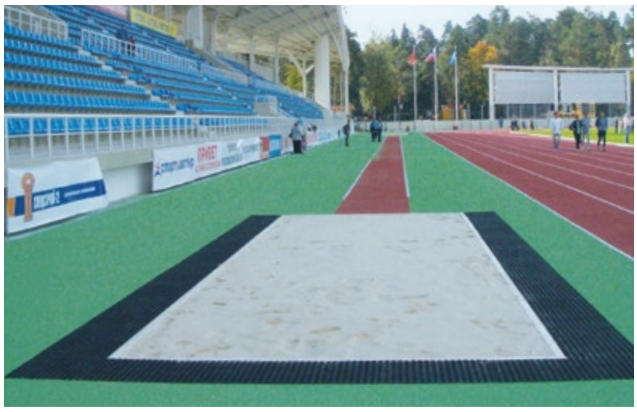


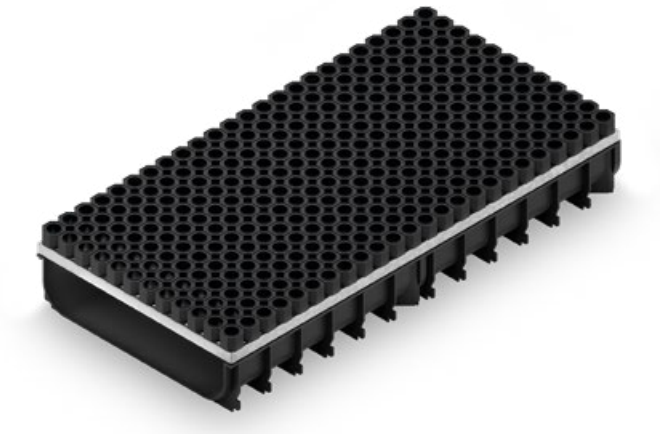
SPORTFIX
Sand Trap Channels & Soft Kerbs

HAURATON supply reliable drainage systems as well as products specially designed for projects in sports facility construction, such as Sand Trap Channels and Soft Kerbs.

SPORTFIX Sand Trap Channels & SPORTFIX Soft Kerbs

SPORTFIX Sand Traps for long jump and triple jump pits or shot put facilities require appropriate separation from other surface coverings. **SPORTFIX Soft Kerbs** are fitted with rubber padding to reliably protect athletes from injury. At the same time, Sand Trap Channels retain thrown sand so that it cannot clog the pores of the adjacent elastic surface covering. Both products can be adapted to the respective layout of the facility.



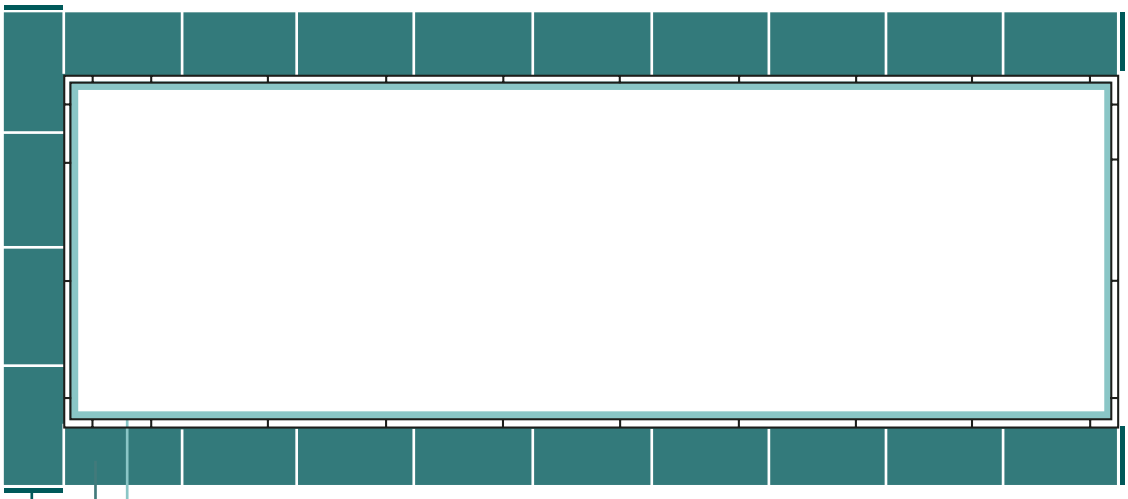


SPORTFIX Sand Trap Channels provide a secure barrier to other surfaces

SPORTFIX Soft Kerbs border the running track and protect athletes from injuries in the event of a fall

Find out about other products on our website.

hauraton.com/en-int/products/sportfix/



Product	Quantity	Item No.	Weight kg/Unit
SPORTFIX Soft Kerb, white, height 400 mm, 1 m	20	7203	53.0
SPORTFIX Soft Kerb, white, height 400 mm, 0.5 m	4	7204	25.6
SPORTFIX Soft Kerb corner piece, white, height 400 mm, 0.25 x 0.25 m	2	7209	28.6
SPORTFIX Sand Trap Channel	22	7740	16.8
End cap **SPORTFIX Sand Trap Channel**	4	7248	0.5

The exact quantities can be individually adapted to the size of your planned system.

SPORTFIX Water Jump and Hurdles

Equipment for stadiums from a single source.

HAURATON – Your Expert for Sports Construction

Sports stadiums require special equipment to provide the appropriate infrastructure to host a wide variety of events. Whether it's a **Water Jump** and **Hurdles** for obstacle courses or distribution chambers to bring power to where it is needed, **HAURATON**'s products can be combined as needed to plan the layout of the stadium according to the requirements and conditions on site.

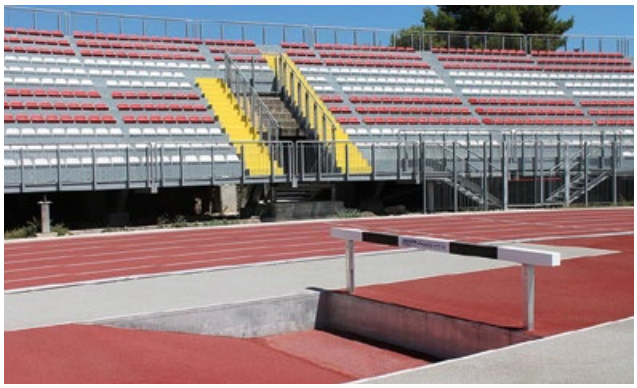
HAURATON sports building products have been used in many major sports venues worldwide, e.g. at international sporting events such as the European Football Championship in Poland and Ukraine or the Football World Cups in Brazil or Russia.

As a member of the International Association of Sports and Leisure Facilities, the **HAURATON** drainage experts are familiar with all applicable standards and guidelines, practical requirements and current trends.

The benefits:

- Everything from a single source
- Plannable construction process
- World Athletics Certified Products

Water Jump with height-adjustable Hurdle, Ostrava, Czech Republic

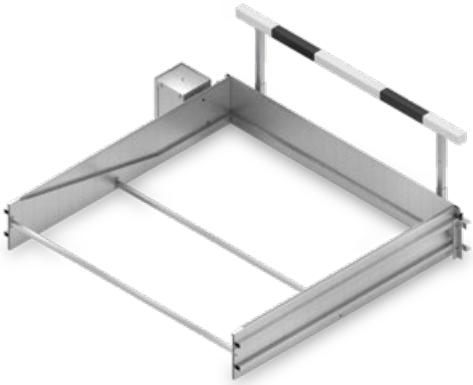


Water Jump with height-adjustable Hurdle, Bartetta Stadium, Italy

Water Jump with inlaid cover, Kranj Stadium, Slovenia

Find out about other products on our website.

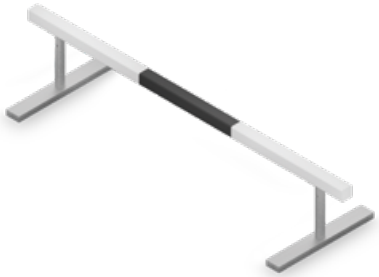
hauraton.com/en-int/products/sportfix/



Your benefits with SPORTFIX Water Jump

The **SPORTFIX Water Jump** is a kit for the water basin including a hurdle. The dimensions correspond to the guidelines of the World Athletics.

- Aluminium kit, including Hurdles, for quick installation and easy transport
- With supply shaft for water inlet and drain
- Hurdle included: Hurdle is suitable for all relevant competitions, as it can be adjusted to three heights



Your benefits with SPORTFIX Hurdles

SPORTFIX Hurdles are designed for the obstacle course. Thanks to their height adjustability, the Hurdles can be used at competition level, e.g. in sports facilities for World Athletics Championships, European Championships or in local athletics facilities.

- Set of four Hurdles for obstacle course
- Height adjustable for different competitions
- Complies with World Athletics guidelines
- Can also be used in conjunction with the Water Jump kit

Drainage Solutions for the Football Pitch

Perfectly playable football pitches thanks to reliable drainage.

Rainwater management for sports fields – safety, functionality, sustainability

A modern football pitch must not only enable top sporting performances, but also function reliably in the rain. Permanent playability, safety for the players and the protection of the adjacent infrastructure depend to a large extent on efficient rainwater management. The requirements are clear:

- Rapid drainage of the playing surfaces to avoid puddles and the risk of injury.
- Hydraulic performance for heavy rainfall events according to KOSTRA data and municipal specifications.
- Environmental aspects such as seepage, retention and storage of particles, microplastics or fillers from artificial turf surfaces.
- Durability and ease of maintenance of the drainage systems, even under high loads due to match operations, maintenance equipment and crowds.

This makes rainwater management an essential building block for the sustainability and profitability of a sports facility.

Natural grass

Football pitches with natural grass usually do not need a separate drainage system, as the precipitation can seep through the turf. Depending on the design, however, there may be a slope of the surrounding areas towards the turf and thus still require a drainage channel around the edge of the pitch.

Artificial turf systems and infill materials

Artificial turf pitches are always used when the intensity of use of a natural turf can no longer be reproduced. Longer periods of use in all weather conditions are easily feasible with a modern artificial turf field. To weigh down, stabilise and straighten the turf fibres, infill granules are used. EPDM can be on existing pitches, but on new fields cork, olive stones or sand are more likely to be used. Regardless of the filling, artificial turf is exposed to permanent abrasion, which manifests itself in a maximum service life of 10 – 15 years. Then the turf fibres are too shortened to achieve the quality of the game.

Cork

The renewable raw material cork is currently very popular as an infill material. But the use of cork on artificial turf pitches also has some disadvantages. In addition to the higher purchase prices, it also has to be replaced more frequently, which further drives up running costs.
Cork is also lighter, which reduces the risk of large-scale washout in the event of heavy rainfall events. This makes regular maintenance of the pitches necessary.
The playing properties of rubber infill material come very close to cork and the basic artificial turf structure can be retained.

Sand

Another approach is to replace the granules with sand filling. This option is relatively inexpensive for operators to implement. The lower impact absorption effect of the sand can increase the risk of injury to the players and change the ball rolling behaviour. Furthermore, the abrasive sand increases the abrasion of the artificial turf fibres and thus leads to larger quantities of microplastics from artificial turf fibres.

Cork

Sand

SPORTFIX CLEAN - Rainwater treatment by filter substrate channel retains microplastics from artificial turf pitches

Drainage systems for artificial turf pitches must provide reliable drainage and infiltration. The infill material and broken blades of grass (= microplastics) must be collected before the water is discharged into a sewer system. The **SPORTFIX CLEAN** filter system is the effective solution for the retention of microplastics and infill material on artificial turf pitches.

Drainage with microplastic retention: **SPORTFIX CLEAN**

SPORTFIX PRO - The all-rounder for the drainage of sports fields and stadiums

Even with natural grass pitches, the adjacent spectator areas must be reliably drained. With the **SPORTFIX PRO** and a wide range of gratings, this can be achieved for every project.

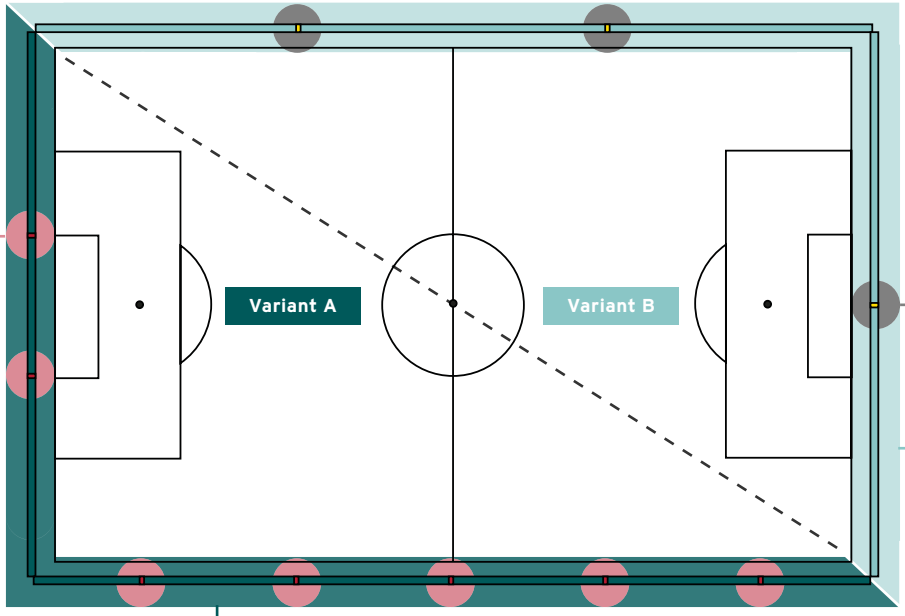
Drainage with **SPORTFIX PRO**

Effective drainage for every football pitch

A safe playing field for every football club

Sump Units

Sump Units



Segment	Variant A | SPORTFIX CLEAN		Variant B | SPORTFIX PRO	
Product	Channel	Sump Unit	Channel	Sump Unit
Item No.	7702	7700	7520	7845
Length	1000 mm	500 mm	1000 m	500 m
Height	250 mm	504 mm	200 mm	504 mm
Weight	5.89 kg	5.28 kg	4.89 kg	5.89 kg

Drainage Solutions for the Hockey Field

Optimal playing conditions for top-class hockey.

Comprehensive rainwater management with HAURATON

Hockey pitches – whether in the club or professional sector – place the highest demands on functionality, safety and sustainability. In addition to the play area itself, reliable rainwater management is crucial for the long-term value retention of the facility as well as for environmental and resource protection.

Hockey turf is made without granules in the professional sector and has a high water requirement. A pitch is watered with tens of thousands of litres of water before the match and at halftime.

Challenges in hockey field construction

- **High load:** Through intensive training and games, the drainage system is permanently exposed to high mechanical stresses.
- **Fine particles & microplastics:** In artificial turf surfaces, blade abrasion or fine particles can be washed out by rain.
- **Heavy rainfall events:** Increasingly extreme weather conditions require systems that drain quickly, but also enable retention and infiltration.
- **Sustainability:** Operators are increasingly relying on solutions that store water locally and reuse it to irrigate green spaces.

Artificial turf pitches without irrigation

In addition to irrigated artificial turf pitches, many clubs and municipalities rely on dry artificial turf surfaces. These systems do not require constant irrigation and are therefore particularly economical to operate and resource-saving.

Properties

- **Playability without water:** The surface structure is designed in such a way that the ball runs precisely even without a film of water and the athletes have optimal adhesion.
- **Surface structure:** Usually multi-layered with an elastic base layer, artificial turf fibres and quartz sand or elastic filling for stabilisation.
- **Areas of application:** Particularly popular for general sports, municipal facilities and multi-purpose use, as no elaborate irrigation technology is required.
- **Properties:** Multi-layer with elastic base layer and particularly dense and smooth artificial turf fibres for permanently good playing conditions.

Donghae Sunrise International Hockey Stadium, Gangwon-do, South Korea

Hockey pitches and their different challenges

Hockey pitches differ significantly in their structure - especially in their water requirements. These differences have a direct impact on drainage and rainwater management requirements.

Artificial turf without irrigation

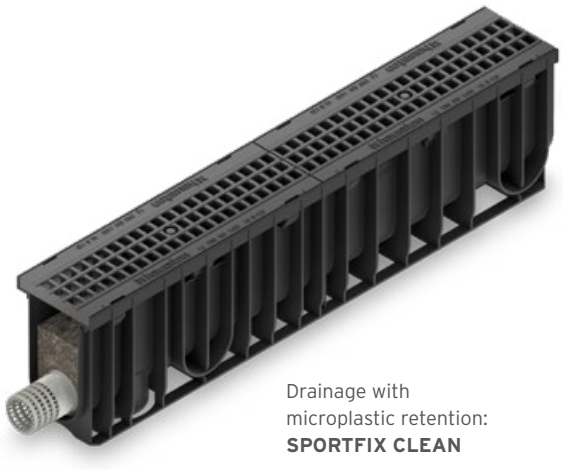
- **Requirements:** Rainwater usually seeps away directly through the lawn. A retention system for blade abrasion is recommended due to the extremely densely woven lawn.

Artificial turf with irrigation

- **Requirements:** These playing surfaces are particularly common in the professional sector. In addition to retaining microplastics from blade abrasion, a filter system in the drainage system enables cleaning with subsequent storage for reuse of the applied water.

SPORTFIX CLEAN -
Rainwater treatment by filter substrate channel retains microplastics from artificial turf pitches

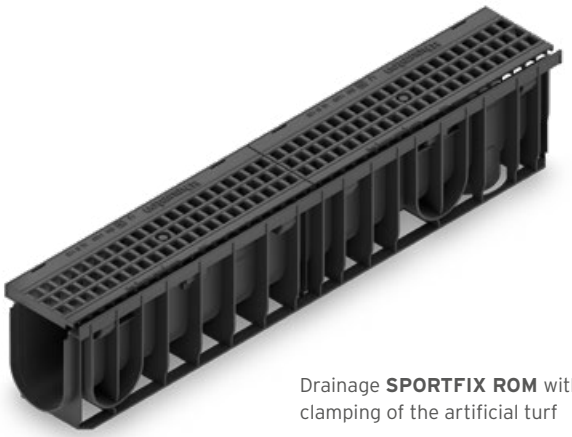
Drainage systems for artificial turf pitches must provide reliable drainage and infiltration. The infill material and broken blades of grass (= microplastics) must be collected before the water is discharged into a sewer system. The **SPORTFIX CLEAN** filter system is the effective solution for the retention of microplastics and blade abrasion on artificial turf pitches.



Drainage with microplastic retention: **SPORTFIX CLEAN**

SPORTFIX ROM -
The drainage solution for artificial turf on hockey fields

SPORTFIX ROM channels are especially suitable for the surface drainage of hockey fields. The system can be adapted to all sizes of un-tensioned artificial turf. The artificial turf is simply placed in the channel and clamped with the GUGI grating so that the lawn edges are securely fixed.

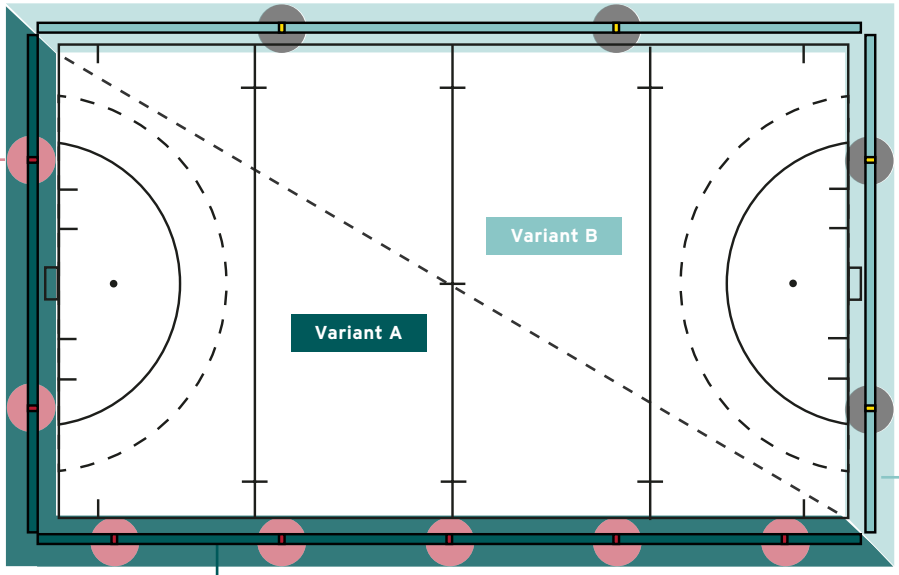


Drainage **SPORTFIX ROM** with clamping of the artificial turf

Hockey field at the National Stadium, Santiago, Chile

Sump Units

Sump Units



Segment	Variant SPORTFIX CLEAN	
Product	Channel	Sump Unit
Item No.	7701 / 7702	7700
Length	1000 mm	500 mm
Height	250 mm	504 mm
Weight	5.89 kg	5.28 kg

SPORTFIX CLEAN
with one side of the pitch

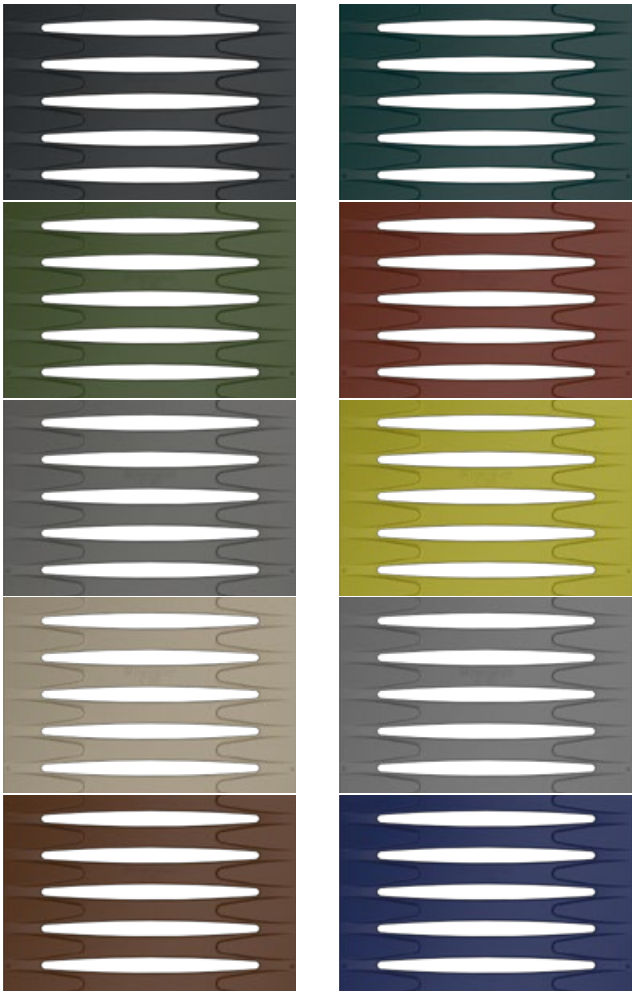
Variant SPORTFIX ROM	
Channel	Sump Unit
7862	7870
1000 mm	500 mm
200 mm	504 mm
4.53 kg	5.40 kg

SPORTFIX ROM for clamping
unfilled artificial turf

Playgrounds and Multifunctional Fields

Exercise fun for young and old.

Playgrounds and multifunctional fields are not about standards and installation plans, but about flexibility and individual design. This is where the **SPORTFIX PRO** channel scores with a variety of gratings in 11 colours:



FIBRETEC Design slotted grating

SPORTFIX PRO

SPORTFIX Soft Kerbs provide a border for the running track and protect athletes from injury in the event of a fall.

Case Study

Jedlik Anyos Gymnasium in Budapest

Drainage for Every Sport - in use Worldwide

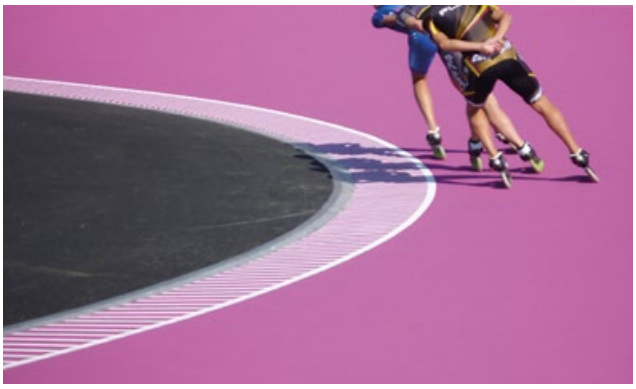
HAURATON systems ensure perfect playing field conditions, safety and sustainability on a wide variety of sports facilities.

Swimming pool in Holland

Whether swimming pools, tennis courts, skate parks or padel halls, rainwater management plays a decisive role wherever sports are played. With our wide range of products, we offer the right solution for every requirement: powerful, durable and standard-compliant. Thanks to international experience and a large number of successfully implemented projects, **HAURATON** drainage systems are the first choice for safe and functional sports surfaces worldwide.

Beach volleyball court in Ireland

Tennis court in Switzerland



Skating track in France

Skatepark in Slovenia

Aquapark in Croatia

Padel Hall in Holland

Handball Hall in Hungary

Cable Management in Sports Facility Construction

Revisionable, floor-laid systems for temporary or permanent organisation and routing of supply and information cables.

In large stadiums for football World Cups or Olympic Games, there is much more going on than 'just' sport. Television broadcasts must be ensured, time recording, lighting, loudspeakers, everything needs cables. **HAURATON** offer various cable routing systems for this purpose:

Our solution – Your benefits with SERVICE CHANNELS

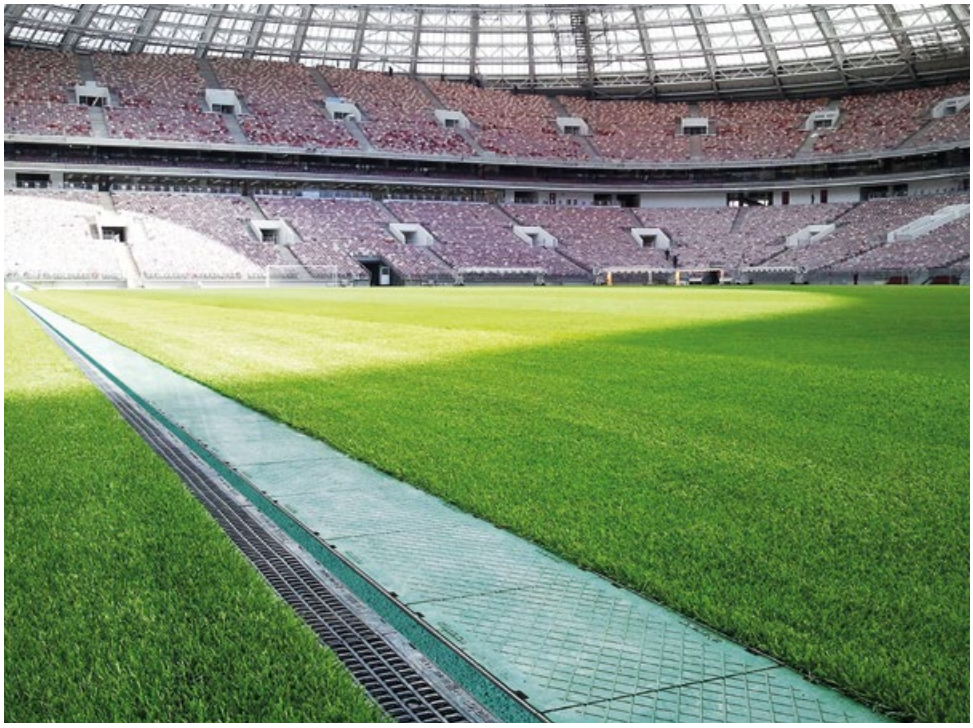
The **SERVICE CHANNELS** system is a proven solution for a wide range of applications for floor-laying cable and cable routing in outdoor and indoor areas. It enables invisible, barrier-free and trip-free cable routing and at the same time ensures quick and easy access to the laid cables and wires. **SERVICE CHANNELS** are suitable for different load classes and areas of application. Depending on the channel system, they can be loaded up to class E 600 and are therefore also designed for extreme load situations and high dynamic forces. **SERVICE CHANNELS** are available in two different materials: **FASERFIX** and **RECYFIX**.

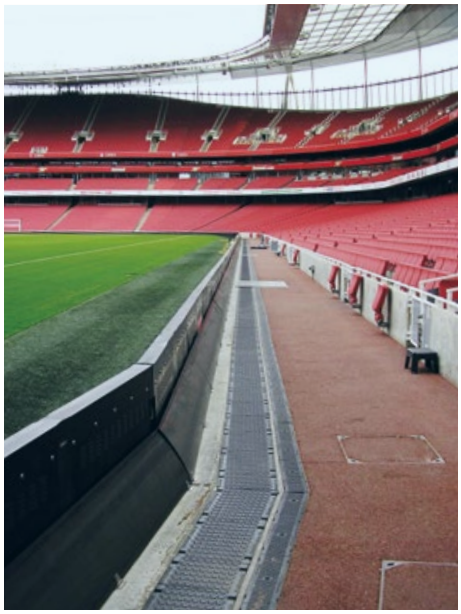
- Temporary or permanent
- Easily accessible

Your benefits with SPORTFIX distribution shaft

SPORTFIX distribution shafts are the ideal cable management system for large sports arenas or concert venues. The covers can be opened easily and quickly and can be accessed by commercial vehicles.

- Many different input and connection options
- Cover can be filled with running track surface or artificial turf to blend discreetly into the surrounding surface
- The durable material (PE) is resistant to frost, de-icing salt, UV radiation and corrosion
- With perforated plate for individual configuration of sockets
- Easy handling on site and efficient installation due to low weight
- Permanently installed underground





Our systems have already proven themselves in numerous stadiums.

Services

Comprehensive rainwater management is only possible if all trades are optimally coordinated.

Partner in all project phases

Our drainage experts from Technical Support will be happy to advise you personally. It is important to us to provide you with the best possible support in every phase of your project.

Our services at a glance:

- Support with general and project-specific questions
- Hydraulic power calculations
- Advice on product selection
- Preparation of installation plans
- On-site installation assistance
- Follow-up if further questions arise

Hydraulic power calculation

The functionality of a drainage system depends largely on the hydraulic performance of the installed drainage channels. To make it easier for you to decide on the type and installation of the drainage channels, **HAURATON** prepare a hydraulic performance calculation for your specific project.

Our Technical Support team only needs a few details, such as the size of the area to be drained, surface covering, rainfall and channel type. Simply enter this in the form below. After processing, you will receive a project dimensioning. Benefit from the many years of experience of the drainage experts.

Reliable & precise calculation

After providing the necessary data, you will receive a precise and reliable calculation.

Free professional support for your project

HAURATON provide you with this service and expert knowledge completely free of charge.

Perfectly tailored to HAURATON products

After receiving the project dimension, you can immediately continue your project planning.

Product-specific certificates

Are available for specific projects – please contact us.

Certified Quality and Compliance with Standards

Planning security with **HAURATON** quality.

Depending on the type of sports facility, various regulations must be observed. With sports products from **HAURATON** you are on the safe side - with conformity up to World Athletics specifications, even Olympic stadiums can be equipped with them.

The planning and construction of sports facilities are subject to strict specifications. Only if drainage systems meet the applicable standards and certificates, can safe, long-lasting, and compliant operation be guaranteed. **HAURATON** offer you this security: All products and systems comply with the relevant standards – tested, documented and internationally recognised.

Relevant standards and guidelines for sports areas

DIN 18035 – Sports fields
Part 1: Basics and Dimensions
Part 2: Irrigation
Part 3: Drainage
Part 7: Artificial turf systems

DIN EN 1433 – Drainage channels for traffic areas

DIN EN 15330-1 – Synthetic turf for sports surfaces

DWA-A/M-102 – Regulations for rainwater management

FIFA Quality Programme / World Rugby / FIH (Hockey) – International Requirements for Pitches and System Components

Sustainability at HAURATON.

For almost 70 years, **HAURATON** have been successful worldwide as a specialist in surface drainage and rainwater management. The topic of sustainability is particularly close to our hearts.

Our commitment to the environment – We are CSC certified.

At **HAURATON**, we rely on natural and recycled materials, produce with renewable energies and reduce CO_2 through short transport routes. From the selection of raw materials to the manufacturing process and disposal, we pay attention to the lowest possible energy consumption and the careful use of all resources. We are all the more pleased that our holistic approach to rainwater management has now been awarded gold certification by the CONCRETE SUSTAINABILITY COUNCIL (CSC).

FASERFIX SUPER, FASERFIX KS, FASERFIX POINT KS

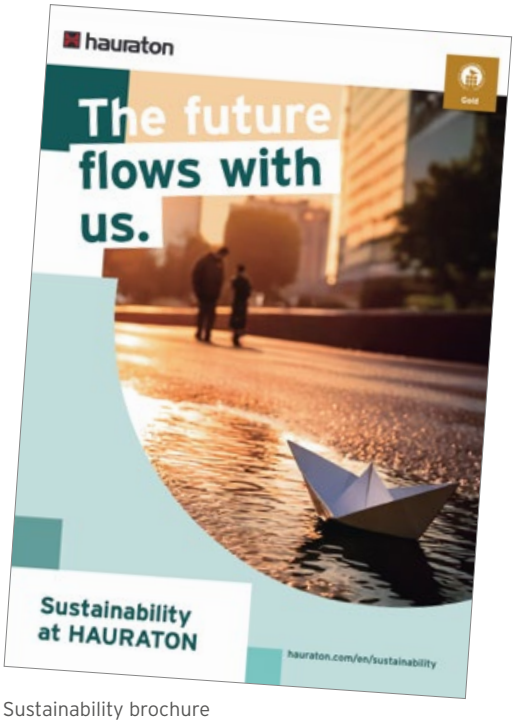
Gold for our **FASERFIX** concrete with natural fibres from basalt

Sustainability at HAURATON

Sustainability, environmental awareness and responsibility for the future are fundamental issues of our time and are particularly relevant for large-scale construction projects and concrete processing.
HAURATON have firmly integrated it into the corporate values and has thus made significant progress. This is also proven by our CSC certification in gold.

Learn more about sustainability at HAURATON and our sustainability brochure for download, can be found here:

hauraton.com/en-int/about-us/sustainability-at-hauraton/



Sustainability brochure at **HAURATON**

Short distances and efficient logistics

Our concrete raw materials are procured exclusively from local and regional producers. Almost half of all total orders from **HAURATON** are for local, nearby delivery facilities, which has an extremely positive effect on the CO_2 balance. **HAURATON** also already have the classic ISO 14001 certification.

With the certification of environmental management in accordance with DIN EN ISO 14001:2015, the careful use of environmental resources is the focus of all economic activities.

Use of recycled materials

For the production of our all-composite channel bodies, we use almost exclusively recycled polypropylene, which can also be recycled after use. Our **RECYFIX** channel bodies also bear the eco-label „Blue Angel".

RECYFIX – One material, many fans.

Facts and figures

Separate collection ensures clean material cycles
In our factory, 98.96 % of the waste generated is collected separately and sent for recycling. In this way, we help to ensure that valuable materials remain in the cycle and that natural resources are conserved.

Electricity from the roof provides energy for the machines
The entire roof at the factory in Ötigheim is equipped with photovoltaic modules. Generating electricity using photovoltaics can save around 280 tonnes of CO_2 * per year.

Water savings in concrete production
The production process of the **FASERFIX** channels is based on so-called hydration-optimised recipes. This ensures that only the quantities of water that are actually necessary are used in the production process, thus adequately protecting the resource of water.

* Basis of calculation: Emission factor electricity mix Germany with upstream chains 445 g/kWh
Source: Federal Environment Agency, estimated value for 2023

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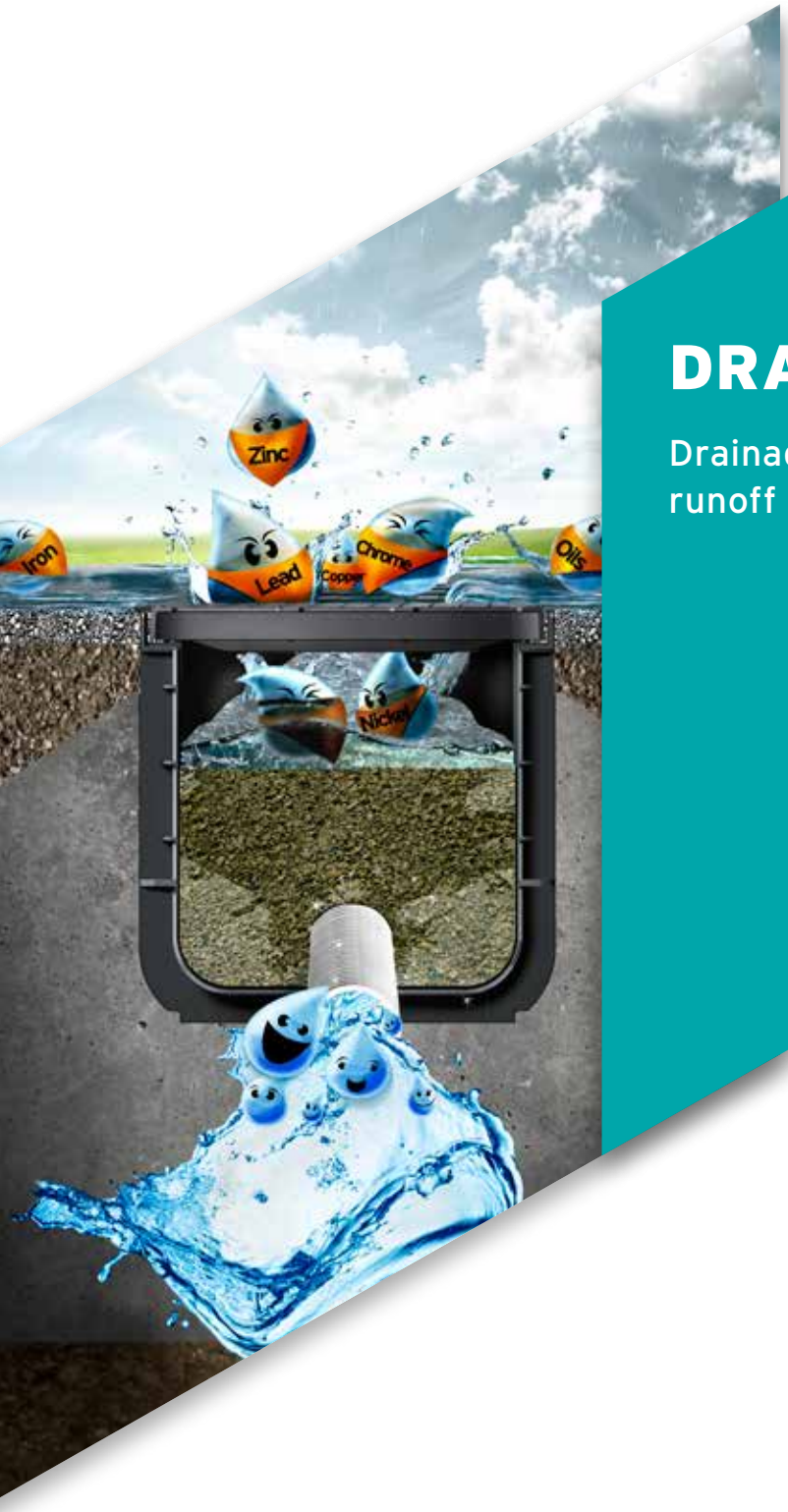
Illustrations, dimensions, and weights are not binding!
We reserve the right to make technical changes
in the interest of progress.

Art.-Nr. 99776

hauraton
IT'S RUNNING WELL



DRAINFIX®CLEAN

Drainage and treatment of runoff water in one system.

DRAINFIX®CLEAN

Rainwater treatment with filter substrate channel.
Systems for the effective and ecological treatment of surface runoff water.

Everybody is obliged to prevent discharge of polluted water into natural water bodies and therefore polluted water has to be treated before it is released into the natural water cycle.
DRAINFIX CLEAN system efficiently combines drainage channels with a runoff water treatment solution.
It is a certified filter channel system offering multiple benefits: It provides drainage, retention, treatment and discharge of runoff water in one system.

From an ecological point of view rainwater shoud be percolated on site.

- percolated rainwater contributes to a large extent to the formation of ground water
- built up and sealed areas prevent natural water circulation
- the quantity of runoff water increases considerably and overloads channels and treatment plants
- runoff water should be immediately percolated for ecological and economic reasons

Runoff water can contain pollutants which must not be allowed to get into the ground water.

- rainwater, depending on the local situation, must be treated before being percolated
- filtering out of dirt and pollutants is a way to treat the runoff water

Composition of dirt and pollutants in rainwater drains

Mineral materials, e.g. sand and clay particles (= greatest part)	No danger for the environment but it can significantly affect the efficiency of the rainwater treatment plant.
Organic components, e.g. leaves, pollen, grasses	
Heavy metals (copper, lead, zinc) from mechanical wear products in road traffic	Represent < 1% from total amount of pollutants, but they negatively affect health and in some cases are carcinogenic. **They must be filtered out and must not be allowed to enter the ground water.**
Polycyclic aromatic hydrocarbons (PAHs) from combustion processes, e.g. from engines	
Totel petroleum hydrocarbons (TPHs), e.g. from drops falling from vehicles	

Advantages of DRAINFIX®CLEAN

All-in-one System

For the effective treatment of runoff water.

+ drainage
+ retention
+ treatment
+ discharging

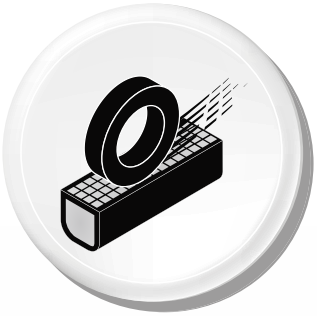
DRAINFIX®CLEAN vs. separators | interceptors

Pollutant / Treatment	TPH liquid phase	TPH dissolved, dispersed	TPH ligated to solids	TSC ≥ 63 µm coarse fraction	TSC ≤ 63 µm fine fraction	Heavy Metals solids ligated to solids	Heavy Metals dissolved
Separator | Interceptor	++	0	+	+	0	0	0
DRAINFIX®CLEAN Filter substrate channel	0 (regular operation) ++ (oil spill/ accident)	0	++	++	++	++	++
Suitable for: local specifications and legal regulations have to be adheared to	car wash areas petrol stations oil spills	metal works car wash areas	roads parking areas industrial areas				

TPH = Total Petrol Hydrocarbons
TSC = Total Solid Content

++ = very suitable
+ = limited suitability
0 = not suitable

Your benefits with **DRAINFIX®**CLEAN



High stability

- Withstands high traffic loads
- Resistance against temperature differences
- Stable and unbreakable material/channel system

= Security

Low weight ensures easy handling on site

- Much lighter compared to channels made of concrete
- Easy handling in stock and on site
- Cost-effective transportation

= Cost savings

Extremely long maintenance intervals

- First maintenance after 10 years (depends on local conditions)
- Only filter cake has to be removed, substrate lasts decades

= Cost savings, security

Renowned development partners

- The development of the system was monitored and supported by approved institutions
  - Bioplan: The experts for ecologically meaningful and cost saving drainage projects.
  - KIT: Karlsruhe Institute of Technology
  - AiF - supported project: The AiF supports research and development in small and medium sized companies.
- Technically certified in many countries

= Security

BIOPLAN

AiF Ideen eine Zukunft geben

KIT Karlsruhe Institute of Technology

Flexible system

- Adjustable to various requirements and local conditions
- Discharge of treated water:
  - Percolation into groundwater
  - Open water bodies
  - Surface water sewer network
- Tailor-made solutions

= Cost savings

DRAINFIX®CLEAN can be adapted to all planning and official requirements.

More usable surface

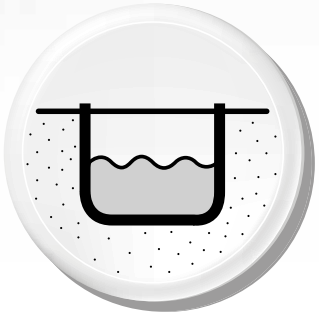
- All in one system:
  - drainage
  - retention
  - treatment
  - discharging
- More effective usage of area compared to other treatment systems, e.g. green swales
- No additional space requirement

= Cost savings / Flexibility

Excellent treatment effect

- Approved by German Institute for Building Technology (DIBt)
- Efficiency of treatment:
  - Total suspended solids (TSS): 99,5 %
  - Total petroleum hydrocarbons (TPHs): 99,9 %
  - Zn: 99,8 %
  - Cu: 99,8 %
- Complies with legislative requirements
- Treatment efficiency secured even in heavy rain events

= Security



High retention capacity

- Security even in heavy rain events

= Security

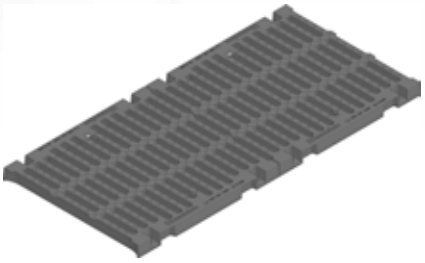
Scan this QR logo for **DRAINFIX®CLEAN** video:

DRAINFIX®CLEAN

Rainwater treatment with filter substrate channel.
Systems for the effective and ecological treatment of rainwater.

1 Channel bodies

- RECYFIX
- high retention volume
- made of PP
- extreme stability, up to load class E 600



2 Gratings

- fullfills requirements according to EN 1433
- ductile iron gratings
- KTL coating if required
- load class up to E 600

3 CARBOTEC®60

- developed and patented by HAURATON
- longlasting high carbonate content
- binding of dissolved heavy metals
- filtration/retention of finest particles (0.006 to 0.060 mm)
- performance better than 30 cm of topsoil

4 Drainage pipe

- drainage pipe made of strong PEHD
- diamter 100 mm
- drainage pipe wrapped with geo-textile

DRAINFIX®CLEAN

Rainwater treatment with filter substrate channel.
Systems for the effective and ecological treatment of rainwater.

Development on basis of real-life testing since 2009

The test plant in Augsburg

Dipl.-Ing. Benedikt Lambert, of Bioplan, doing sampling.

Field trials as the basis for product development: DRAINFIX®CLEAN test plant, Augsburg

Field trials have the decisive advantage over laboratory tests as procedures and developments can be measured and assessed under real conditions, for example, chemical-physical and biological processes or measurements throughout the whole year under different weather conditions. For many years HAURATON has operated the testing plant in the Derchinger Straße in Augsburg for the development of DRAINFIX CLEAN.

- Derchinger-Straße:
  a very busy motorway slip road, up to 4,000 cars a day
- Measurement of different filter sizes under real conditions - without road cleaning.
- Development of a filter substrate that is suitable for many years of operation with high capacity pollutant retention
- Determination of the specific filter area necessary for years of continuous operation of the filter system without blocking
- Determination of the storage volume required to retain the pollutants for many years
- Determination of the necessary retention volume for security in heavy rains

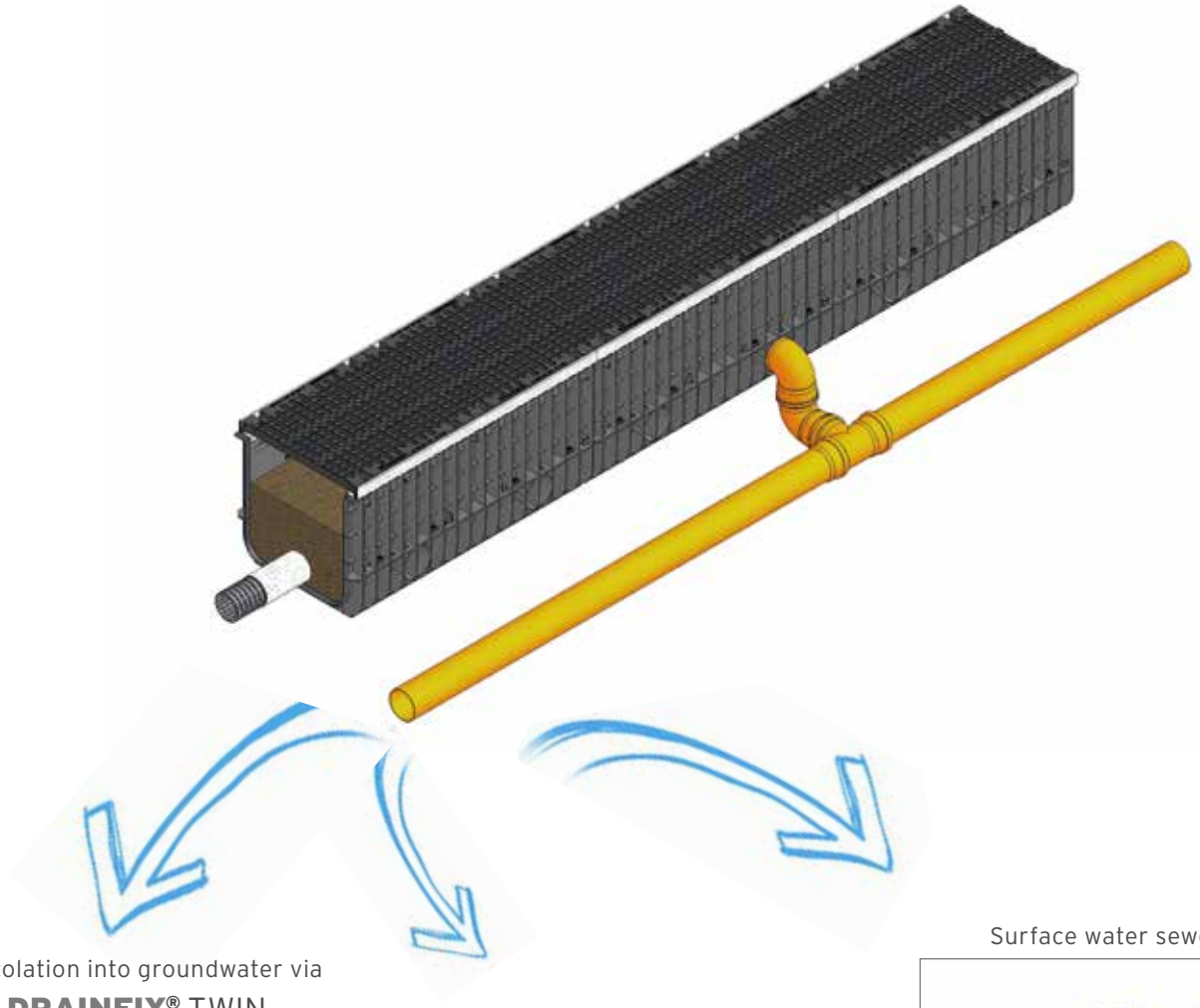
DRAINFIX®CLEAN

Rainwater treatment with filter substrate channel.
Systems for the effective and ecological treatment of rainwater.

Flexibility in discharging of treated water from the system.

Options:

- Discharge into ground water via percolation facilities
- Discharge into open water bodies
- Connection to the surface water sewer network



Percolation into groundwater via
DRAINFIX® TWIN

Open water body

Surface water sewer network

References from all over the world

Romania, Mamaia - Sand Drifts A Challenge for Filtration System
9,000 meters of DRAINFIX®CLEAN channels installed

Almost 9,000 meters of the DRAINFIX CLEAN channels were installed in one of the most popular Romanian seaside resorts Mamaia as a solution for draining and purifying runoff water. A system was required that could guarantee an efficient runoff water treatment performance while being easy to maintain, one which doesn't require replacing the filter material every time. Moreover, the composite channel bodies offer a high degree of corrosion resistance while withstanding stress caused by traffic and temperature differences. Furthermore, the channels are true lightweights and allow for comfortable installation. Even rough handling on site will not result in a ruptured channel.

As the project is located near the seaside, it had to be considered that wind drifts can cause substantial amounts of sand from the beach to form enormous sediment layers in a filter system. Committing to the principle of surface filtration based upon a filter's specific permeability, DRAINFIX CLEAN easily copes with the build up of sand and sediment layers. At the same time, it provides a sufficient filter area for the retention of solids and pollutants. Thus, the sand barely impacts the filter's functionality. Only in order to maintain the retention space within the channel is it occasionally necessary to remove the sand that has been washed into the channel. However, this can be done without having to exchange the filter substrate. This ensures a lasting and reliant storm water treatment for the beach promenade of Mamaia.

New Zealand, Auckland - Pikes Point Transfer Station Limited

Nowadays, rain water management concerns more and more projects all over the world, like, for example, the Waste management facility in Auckland, New Zealand. An exciting challenge of this project was to find a runoff water drainage and treatment system capable of removing both dissolved and particulate metal species (primarily copper, lead and zinc) in order to achieve compliance with discharge standards from the site and the marine receiving environment. DRAINFIX CLEAN, with its excellent treatment efficiency, was chosen as a fitting solution meeting all the requirements on quality of discharged water of a waste management plant.

United Kingdom, Lancashire - Darwen & Blackburn Sportcentre *

Runoff water from every outdoor car park contains high amounts of pollutants produced by the combusting processes in engines or as an oil or petrol leak from vehicles. Therefore, it is necessary to treat the surface runoff water from such places prior to discharging them back into nature. The car park project of Darwen & Blackburn Sportcentre, Lancashire in the UK was faced with this same issue. The challenge was an area of more than 400m^2 with asphalt surface. As a proper way out, it was decided to use the DRAINFIX CLEAN system. Today, the cleaned water from the car park discharges from the DRAINFIX CLEAN channel directly into an existing stream. Since 2011 the channels have been efficiently treating runoff water with no maintenance required so far.

* This reference project is based on our DRAINFIX CLEAN solution with FASERFIX channels.

Switzerland, Basel - Power plant *

Switzerland, with its natural beauty, is a country that pays close attention to protecting the environment as much as possible. The water power plant in Rheinfelden in Basel is a great example of how to use natural resources to create electricity and to protect the environment at the same time. This project thinks about water and nature conversion in many ways. That is why surface runoff water from sealed areas like car parks is drained and treated with DRAINFIX CLEAN channels.

France, Saint Chamond - Pole Industriel, Eco Quartier *

The Ökobezirk Novacieries in St Chamond was previously an industrial area which had to be remediated prior to any further usage in order to get the area into environment natural stand. The area was then transformed to be used as a place for private offices and small industrial companies of the St Etienne Metropole.
To preserve this place after remediation and protect the area from any new pollution, although there is everyday traffic of private cars and trucks, the St Etienne Métropole decided to install DRAINFIX CLEAN channels to deal with pollutants derived from cars and trucks. A total of 139 meters of DRAINFIX CLEAN channels were installed. The area was officially opened by Minister Cécile Duflot (Minister for Housing and Planning).

* This reference project is based on our DRAINFIX CLEAN solution with FASERFIX channels.

Germany, Walldorf - Sustainable concept for treating rainwater *

In building the new district, the local council and planners were pursuing long-term objectives. The public green spaces, southern park, rainwater seepage and other compensatory measures were integral parts of the ecological concept. Rainwater that tends to collect on the surface of roads and parking areas needs to be treated before it re-enters the ground water via the infiltration system. In Walldorf they decided on a completely new system: the DRAINFIX CLEAN filter substrate channel system from HAURATON. The purified water runs off via a filter mesh pipe at the channel base into the infiltration ditch and seeps away there.

* This reference project is based on our DRAINFIX CLEAN solution with FASERFIX channels.

Germany, Ettlingen - Office complex Square *

In 2013, 90m of DRAINFIX CLEAN channels were installed to drain and treat surface runoff water from various areas like walkways and parking spots at the project of Office Complex of Freyler and Ipsen Pharma Company in Ettlingen, Germany. The building itself belongs to the concept of sustainable buildings and therefore there were high demands for environmental-friendly and ecological solutions in dealing with runoff water and in protecting natural resources. The solution for rainwater management was achieved by the DRAINFIX CLEAN system. This is a great choice that meets all the requirements as this system offers many advantages in one – surface runoff water drainage, retention, treatment and discharge. Cleansed water is being percolated directly at the place of origin via infiltration blocks.

* This reference project is based on our DRAINFIX CLEAN solution with FASERFIX channels.

DRAINFIX®CLEAN references

- Aachen, E-Lab (RWTH - Aachen University) / Germany
- Altrip, „Blaue Adria“ / Germany
- Bochum, Glockengarten / Germany
- Bad Homburg, Zeppelin street / Germany
- Berlin, Grünauer street 83-85 / Germany
- Beuerberg, Bus turning point / Germany
- Biblis, logisitcs centre Dietz / Germany
- Burgau, ROMA Rolladensysteme / Germany
- Bruckberg, Efaflex / Germany
- Dachau, Intaurus / Germany
- Darmstadt, Marienhospital / Germany
- Darwen & Blackburn Sportcenter / Darwen Vale High School - Darwen / Lancashire –Great Britain
- Eching, AUDI / Germany
- Erftstadt, REWE supermarket / Germany
- Eschbach, Haulotte / Germany
- Essingen, Hornbach logisitcs centre / Germany
- Ettlingen, ‚Square‘ office complex/ Germany
- Everswinkel, Nebelung warehouse / Germany
- Flörsheim-Dalsheim, Mittelstandsbahnhof ‚railway station‘ / Germany
- Frankfurt, Gateway Gardens fire brigade / Germany
- Freiburg, Gärtnerei Uni / Germany /
- Freiburg, NBG Sternenhof TG Rampe / Germany
- Freiburg, Bugginger street 2 / Germany
- Freiburg, Wentzinger schools / Germany
- Gaggenau, road B462 / Germany
- Gammertingen, NB EDEKA + NETTO supermarkets/ Germany
- Geretsried, Rudolf Chemie / Germany
- Gottenheim, NETTO supermarket / Germany
- Grafenwörth , Leitschutz / Austria
- Grevenbroich, Kita (nursery)/ Germany
- Gross Gerau, Hospital car park / Germany
- Großrosseln-Nassweiler, Fire brigade / Germany
- Hamburg, Elbquartier Blankenese / Germany
- Hannover, FMZ at Südbahnhof / Germany
- Haunstetten, Bakery Rager / Germany
- Heilbronn, Schäfer Logistics / Germany
- Heitersheim, NBG IFANG / Germany
- Heppenheim, Jäger electrical factory / Germany
- Hinterbrühl, WHA Gaadner street / Austria
- Ihringen, Development am Krebsbach / Germany
- Ingelheim, Saalmühle / Germany

- Innsbruck, Mandelsberger street / Austria
- Innsbruck, Karl-Innerebner street / Austria
- Kaufbeuren, Innovapark / Germany
- Königsbrunn, Gemeinderat am Rathausplatz / Austria
- Lahnstein, Fire brigade / Germany
- Landau a.d. Isar / Logistics center LAN II / Germany
- Landeck, Huber Areal / Austria
- Laxenburg, Marktgemeinde / Austria
- Lohne, Polytec Plastics / Germany
- Lörrach, Burger King car park / Germany
- Ludwigshafen, FMZ / Germany
- Ludwigshafen, Toyota Stoltmann / Germany
- Mainz, Finther Land street / Germany
- Mamaia, Boulevard on the sea / Romania
- Mittenwalde, Göhler logistics / Germany
- Munich, Neue Balan 408 / Germany
- Munich, distribution center VW / Deutschland
- Neuenstadt, Business expansion Förch / Germany
- Niederaichbach, Logistics centre / Germany
- Oberesslingen, IH base / Germany
- Obertrum am See, OMV petrol station / Austria
- Pikes Point Transfer Station / New Zealand
- Poing, SBF distribution centre / Germany
- Power Plant / Switzerland
- Rastatt, Josef-Durler School / Germany
- Rheinfelden / Basel, Power plant / Germany, Switzerland
- Saint Chamond, Pole Industrial, France
- Siegen, Fire brigade / Germany
- Staufen, Railway station / Germany
- Umkirch, Barth forwarding company /Germany
- Unterschleißheim, Penny Markt supermarket/ Germany
- Vienna, Bildungscampus Hbf (education campus)/ Austria
- Vienna, Expansion SPAR Esslinger street / Austria
- Walldorf, New housing development Süd 1.BA / Germany
- Walldorf, Ecologis living district / Germany
- Walldorf, New housing development + social centre / Germany
- Waldkirch, New housing development Buchholz / Germany
- Wiener Neustadt, Holzwurm / Austria
- Wörgl, Morandell NB Warehouse / Austria
- Wörth a.d. Isar, Kirchanger EDEKA supermarket/ Germany
- Zwingenberg, Bahnhof street / Germany

hauraton
IT'S RUNNING WELL

HAURATON partner

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CIVILS | LANDSCAPING | AQUA | SPORT

CUSTOMISED DRAINAGE

solutions

Customised solutions

Specially designed drainage with high aesthetics.

Modern architecture makes special demands in many areas - and surface drainage is no exception. As well as functioning reliably over the long term, the systems also have to be flexible and individually adaptable to any construction project. HAURATON goes into the specific requirements of each project and collaborates with the architect as early as the pre-planning phase.

A specialist team is devoted to dealing with customised solutions – from pre-planning to on-time delivery and assistance during installation. A suitable solution is therefore found for each application maximising the functional and design requirements.

Service package planner 4

Materials 6

Design square channels 10

DESIGN LINE
Solid and stable - down to the last detail. 12

SLIM LINE CHANNELS
SLIM LINE, elegant and extremely flexible. 20

OTHER PRODUCTS TO CONSIDER 31
RECYFIX® PRO channels with **FIBRETEC®** grating
STAINESS STEEL PERFORATED grating

Design slotted channels 32

Symmetrical Design slotted channels
Visually retentive facade drainage. 34

Symmetrical Design slotted channels
Unobtrusive removal of water from surfaces and open spaces. 35

Additional components
Individual gratings for channels and single point inlets from the standard product range. 44

Service package planner

Good teamwork is the basis for a perfect result. HAURATON collaborates with architects and planners as early as the pre-planning stage, and provides assistance in the form of a free service quote.

Individual planning support

Solving the many and diverse surface water drainage requirements requires in-depth knowledge, considerable expertise and comprehensive experience. Our office-based and field service engineers have in-depth technical and product-specific knowledge. This guarantees that you will receive qualified, individual advice. Particularly if you require anything out of the ordinary with regard to functionality and design, we will support your individual construction project – from project-specific tender text to production. Give us a call or send us an e-mail! We are there for you at all times, and would be pleased to reply to your individual questions concerning drainage.

System and sizing

As well as producing hydraulic performance calculations, we also draw up project-related routing plans. The CAD charts show the exact locations of the drainage channels and the positions of end caps, trash boxes and other accessories. A part list containing the names and quantities of the required products completes the service. We also need your project-specific information to produce the routing plans. The routing plans are also produced free of charge. Take advantage of our offer!

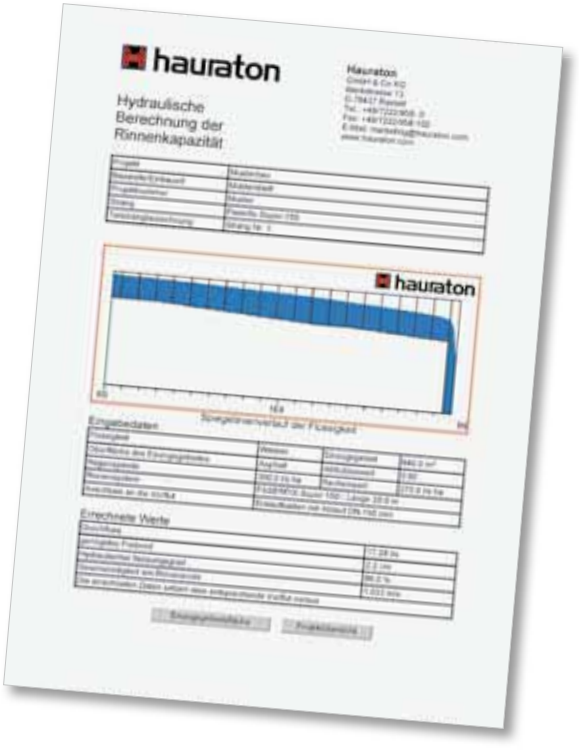
Hydraulics

The functionality of a drainage system mainly depends on the hydraulic performance of the built-in drainage channels. In order to make it easier to make a correct decision on the type of drainage channels and the routing thereof, we produce hydraulic performance calculations for your particular project. The program for measuring hydraulic performance of our drainage channels was developed by the University of Prague. The staff in our CAD department just need various items of information such as the size of the area to be drained, the type of surface covering, the rainwater yield, the channel type etc.

This service is free of charge, of course! Speak to our field service and office-based employees.

The benefits to you as a planner

- ☑ individual planning support
- ☑ hydraulic calculations, routing charts
- ☑ project-related tenders



Materials

High-quality materials give individually manufactured channels from HAURATON their unique appearance, and provide reliability at all times.

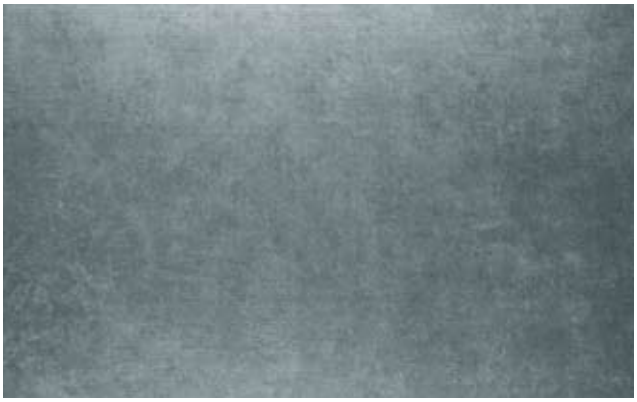
Stainless steel

Stainless steel channels from HAURATON are made from stainless chromium nickel steel in material grades stainless steel 304 and 316. This makes them corrosion resistant.

Stainless steel 304 is the standard for austenitic chromium nickel steels. Because of the high level of corrosion resistance, the good processing capability and the attractive appearance in high-gloss polished, sanded or brushed condition, it is the basis for our products.

Stainless steel 316 is of higher quality. This steel is extremely resistant to media containing chloride and non-oxidising acids. The type of surface plays a major part in the corrosion resistance of this material; with a polished surface the resistance is considerably better compared to the same material with a rougher surface.

Galvanised steel



Hot-dip galvanising provides extremely long-lasting and cost-effective corrosion protection, and has advantages that are unique in corrosion protection technology. When hot-dip galvanising takes place, the steel is pre-treated and then immersed in a bath of molten zinc at a temperature of approximately 450°C. The zinc and the steel react with each other. An iron/zinc alloy forms on the surface of the steel. This inseparable connection between the zinc and the steel provides protection that is significantly different from any other method. Hot-dip galvanised surfaces are not just protected from the weather but also from mechanical stress - for decades. Under normal conditions, hot-dip galvanising provides protection from corrosion for up to 50 years, and even under considerable stress, protection is usually provided for more than 25 years.

The above-mentioned hot-dip galvanising process describes single piece galvanising (discontinuous process) A special type of hot-dip galvanising is strip galvanising (continuous process), in which a steel strip from a roll runs through the galvanising system. This material is also suitable for manufacturing drainage products.

Corten steel

Corten steel is a steel alloy that is characterised by being extremely weather resistant. The surface thereof is coated with extremely dense iron oxide, which is responsible for a high level of rustproofing: it acts as a barrier layer and gives the product the required rust-red appearance. Corten steel is used at HAURATON specially for manufacturing distinctive gratings.

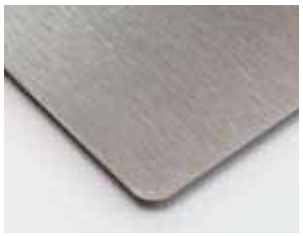
Note

Drainage systems made from steel or stainless steel are permanently exposed to the weather and the environment. In order to avoid corrosion and retain a permanently high-quality appearance, regular cleaning and care is required.

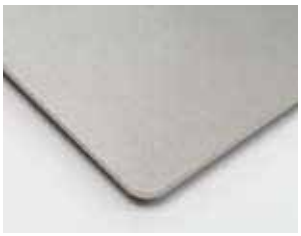
Surface treatment

Metal surfaces can be treated using different methods depending on the appearance that is required. A wide range of visual results can be achieved in this way, particularly for channel gratings: The following methods are available at Hauraton:

- brushed

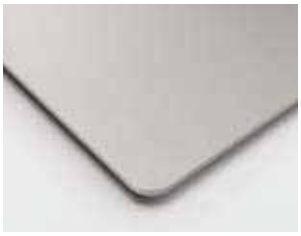


- sandblasted



- polished

- glass bead blasted



- pickled

- coated

Planning reliability

Processes and products ARE carefully monitored at HAURATON.
This allows HAURATON to provide its customers with maximum reliability as a partner.

Quality certification in accordance with ISO 9001:2008

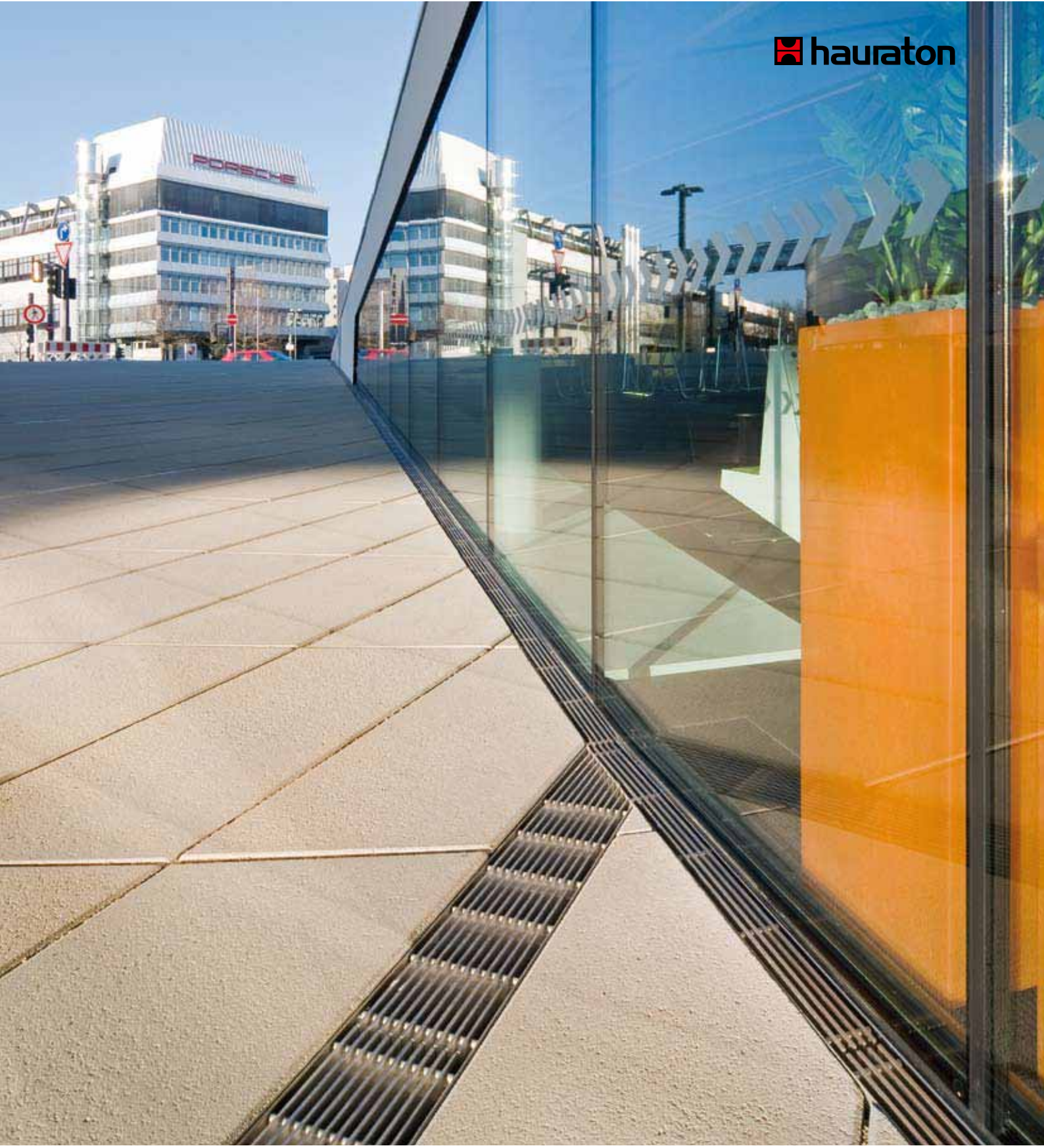
HAURATON was one of the first construction industry companies to achieve ISO 9001 quality certification in 1993. The quality standards have been subjected to continuous further development, and are certified at regular intervals.
The ISO 9001:2008 quality requirements do not just concern products alone, but the entire company. This includes development, construction, production, installation and customer service. With ISO 9001:2008 quality management, HAURATON is providing its customers with maximum reliability as a partner.

Load classes based on EN 1433

Maximum quality and the best processing ensure that the channels are functional and have a high-quality appearance for many years. The products are designed and manufactured on the basis of EN 1433. Within the construction industry, HAURATON is one of the first manufacturers to volun-tarily give a 5-year warranty.

CERTIFICATE
ISO 9001:2008
DEKRA
hauraton
Hauraton GmbH & Co. KG
IAF

hauraton
CE Declaration of Conformity
SLOTTED CHANNELS



Maximum flexibility and adaptability

Individually manufactured channels from HAURATON provide a considerable amount of flexibility in terms of length, width and height, and are manufactured to millimetre accuracy in accordance with customer specifications. The laying speed has been increased considerably by having sections up to 3 metres in length. The products can be manufactured with a polygonal or radial design for curved installations. In these cases, pre-cut sections and radii are adapted to the special requirements of each project. A wide variety of gratings is available for providing a high-quality appearance.

Design square channels

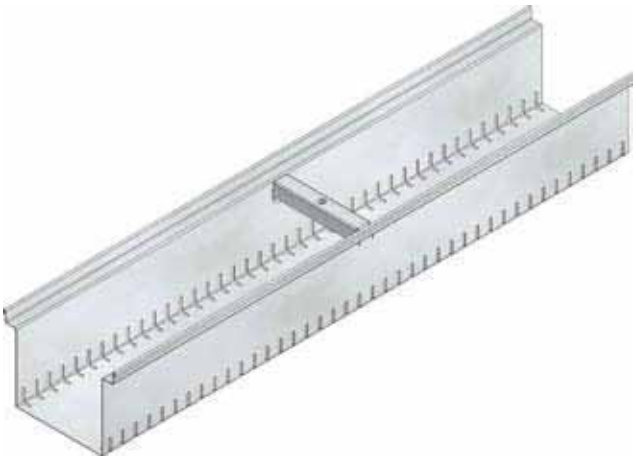
Design square channels

Design square channels are available with two different designs: as DESIGN LINE or SLIM LINE CHANNELS. The difference lies in the design of the grating: With the DESIGN LINE channel it has an edged design; with SLIM LINE CHANNELS this is taken care of by riveted-in or welded-in support rods. For design reasons, SLIM LINE CHANNELS are slimmer and narrower than DESIGN LINE and can be manufactured in a radial shape (DESIGN LINE polygonal only).

With both systems the channel walls can be perforated at one or both sides. The height can also be adjusted using adjusting brackets. These channels are used for draining facades, the surfaces of open areas and also underground car parks. Load classes A 15 – D 400 should be implemented depending on the technical design and the grating.

Manufacturing can take place using materials stainless steel 304 and 316 and strip-galvanised or hot-dip galvanised steel. On request, this type of channel can also be combined with standard gratings from the HAURATON product range, e.g. with GUGI-Ductile iron mesh. Additional coating in accordance with RAL is also available.

DESIGN LINE

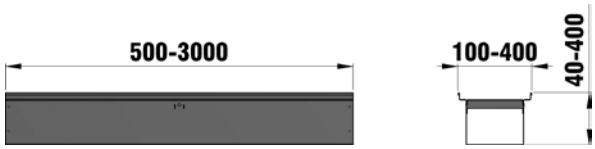


SLIM LINE CHANNEL

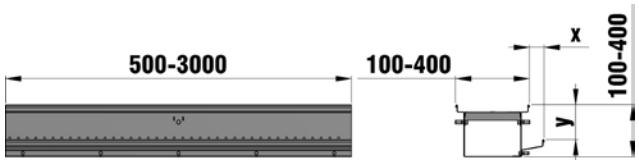
Design square channels

DESIGN LINE

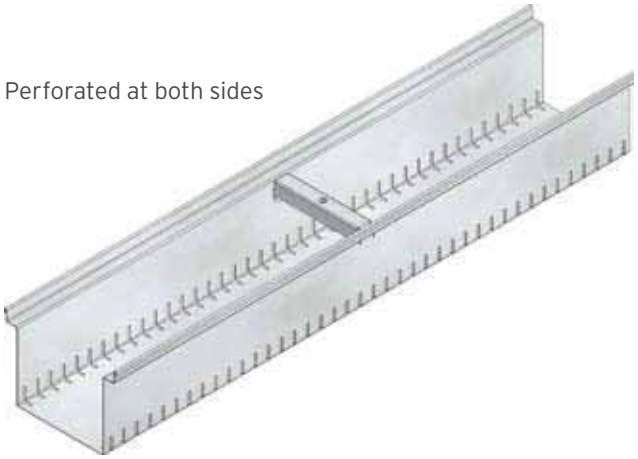
Closed



Perforated at one side



Perforated at both sides



All dimensions correspond to the usual practical requirements in accordance with our experience.
Tailor-made solutions are possible:

- ☐ any size (width, height,...)
- ☐ built-in fall
- ☐ lock-down possibilities
- ☐ concrete anchor ties
- ☐ accessories (foul air traps, mud buckets,...)

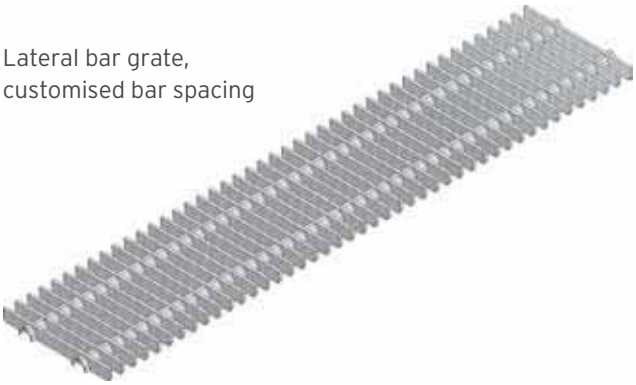
DESIGN LINE gratings

Closed with
removable side wall
Without drip tray

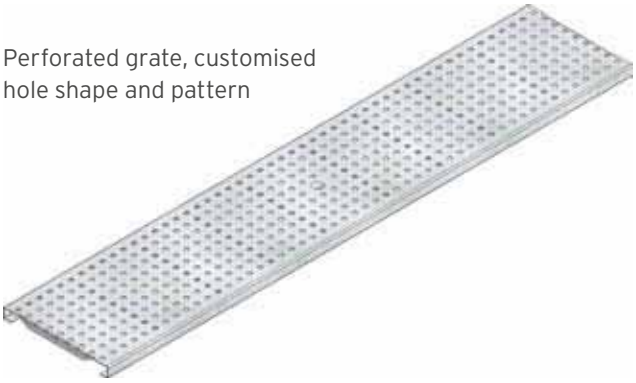
Perforated at one side with
removable side wall
and drip tray

Longitudinal bar grating,
customised bar spacing

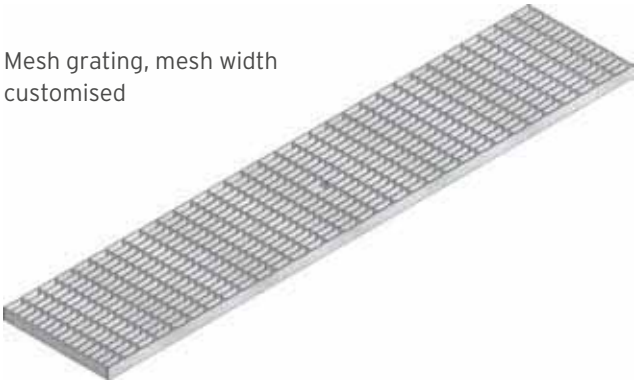
Lateral bar grate,
customised bar spacing



Perforated grate, customised
hole shape and pattern



Mesh grating, mesh width
customised



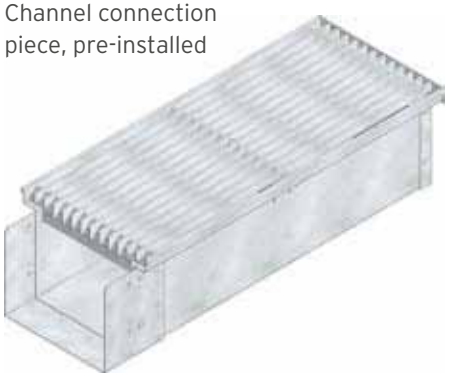
Design square channels

DESIGN LINE accessories

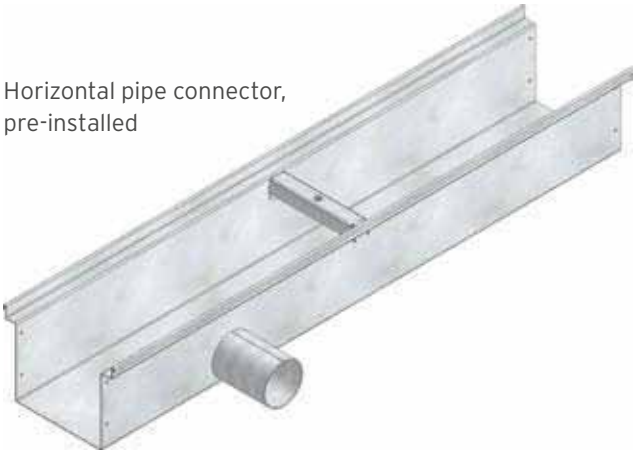
End cap,
pre-installed

Vertical pipe connector,
pre-installed

Channel connection
piece, pre-installed



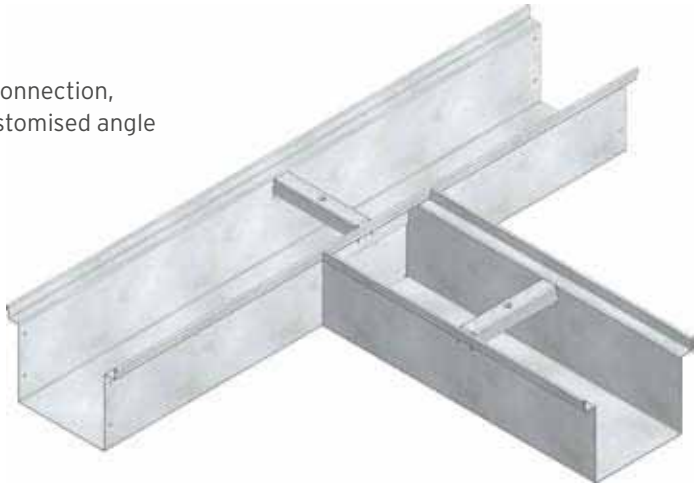
Horizontal pipe connector,
pre-installed



Corner element, customised angle

Connection flange

T connection, customised angle

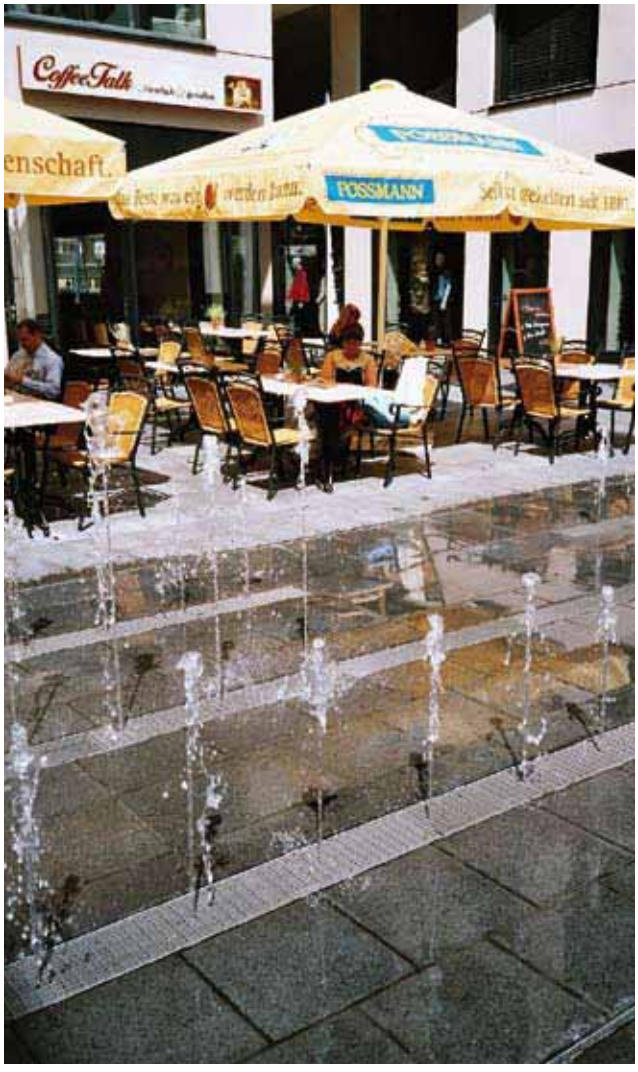


Reference projects

DESIGN LINE.
Examples of customised, specially manufactured products.

Frankfurt, Schillerplatz

Several of the most important roads in the inner city of Frankfurt converge in this square. A water feature was combined with HAURATON DESIGN LINE here. The nozzle system that was required was built into appropriately prepared channels by the customer. Design slotted channels ensure that no water escapes onto the surrounding surfaces. This resulted in an entertaining feature for young and old. The following HAURATON drainage channels were installed on the Schillerplatz in Frankfurt: 25 m of DESIGN LINE with V4A mesh grating



Experimenta Heilbronn

Discover, experience, recognise: This is the motto of Experimenta in Heilbronn. The world of learning and experience makes science and technology comprehensible and makes them come alive. In four sophisticatedly staged theme worlds, children, teenagers and also adults can experience and discover different areas of science on 150 different exhibits. Experimenta was created from a building of the historical seed store, which was completely redesigned, and new modern annexe. The two buildings are in a central location in Heilbronn next to the river Neckar, not far from the inner city.

The large glass facade in the reception area is a real eye-catcher. The planners used DESIGN LINE facade channels from HAURATON to drain this building. Equipped with a longitudinal bar grate, they are extremely efficient and protect the building from water. The channels are equipped with a detachable side wall at one side, which provides access to the glass elements if a repair is needed.

Reference projects

DESIGN LINE.
Examples of customised, specially manufactured products.

Frankfurt Oval

DESIGN LINE seepage water channel made from stainless steel, polygonal with stainless steel mesh grating. The channel for facade drainage was individually adapted to the building contour. This created an elegant transition from surface coverings to the facade. The channels are equipped with a detachable side wall. This makes it possible to repair or replace the window elements.

DESIGN LINE square channel, radial with mesh grating. The channel was specially adapted to a bi-parting drum slider door.

Tender proposal

DESIGN LINE

1. ___ pc. **DESIGN LINE**
Material _____, with continuous grating support at both sides and reinforced angle housing, channel walls variable (closed, perforated at one or two sides), if required with detachable side wall, with or without drip tray;
Channel width B _____,
Channel height H _____,
Channel length L _____
Quality in accordance with ISO 9001:2008
Manufacturer: e.g. Hauraton Ltd
Unit 4, Frenchs Avenue
Dunstable, Beds. LU6 1BH
Tel. 01582 501380
Fax 01582 501399
technical@hauraton.co.uk

Gratings

2. ___ pc. **Longitudinal bar grating**
Material _____, FL 20/3 or 20/5, bar spacing 10 - 12 mm, flush, load-bearing, screw fixed, Grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

3. ___ pc. **Mesh grating**
Material _____, MW 30/10, flush, load-bearing, screw fixed, grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

4. ___ pc. **Lateral bar grating**
Material _____, FL 20/3 or 20/5, bar spacing 15 mm, flush, load-bearing, screw fixed, grating width B _____ (suitable for above-mentioned channel)Grating height H _____, Grating length L _____

5. ___ pc. **Perforated grating**
Material _____, Ø 6 - 10 mm, flush, load-bearing, screw fixed, Grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

Accessories

6. ___ pc. **End cap addition**
Material _____, pre-installed in the factory

7. ___ pc. **Channel connection piece addition**
Material _____, pre-installed in the factory

8. ___ pc. **Discharge pipe connector addition**
DN 70/100 vertical / horizontal, material _____, pre-installed in the factory

9. ___ pc. **Corner element addition**
pre-installed in the factory, maximum leg length approx. 500 mm

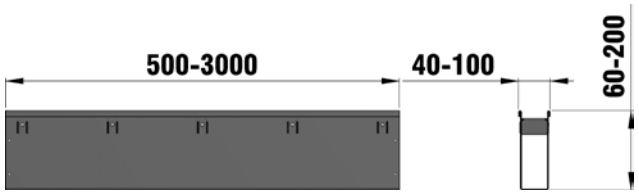
10. ___ pc. **T-connection addition**
pre-installed in the factory, maximum leg length approx. 500 mm

11. ___ pc. **Transition element addition**
from radial to straight, pre-installed in the factory

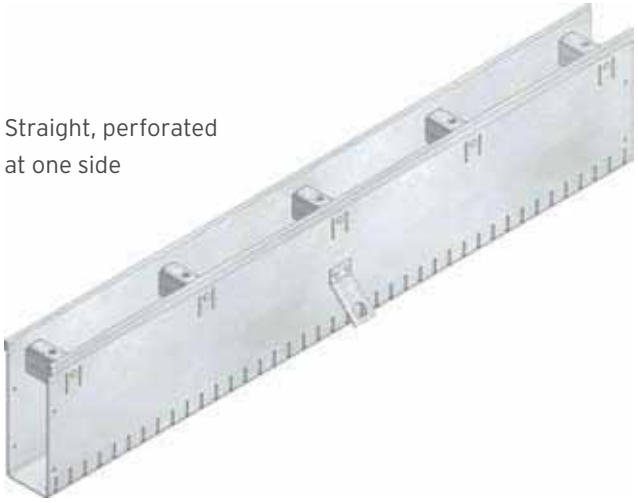
Design square channels

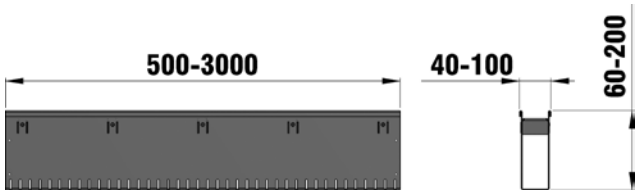
SLIM LINE CHANNEL channels

Straight, closed

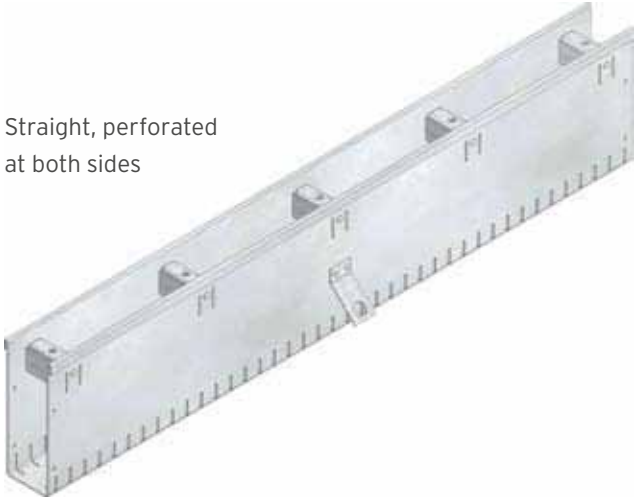


Straight, perforated
at one side





Straight, perforated
at both sides



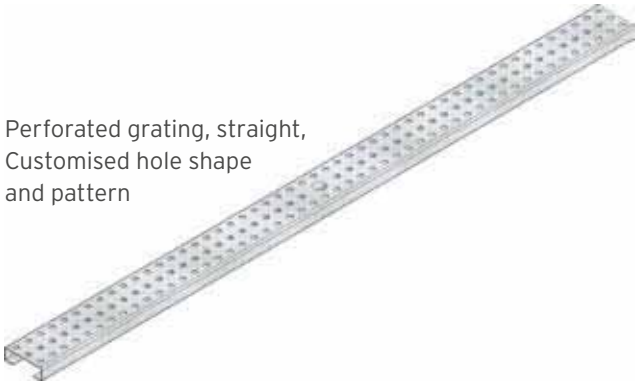
All dimensions correspond to the usual practical requirements in accordance with our experience.
Tailor-made solutions are possible:

- ☐ any size (width, height,...)
- ☐ built-in fall
- ☐ lock-down possibilities
- ☐ concrete anchor ties
- ☐ accessories (foul air traps, mud buckets,...)

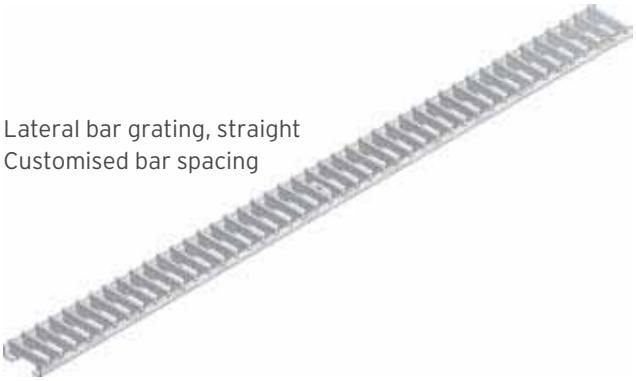
SLIM LINE CHANNEL gratings

Longitudinal bar grating, straight, Customised bar spacing

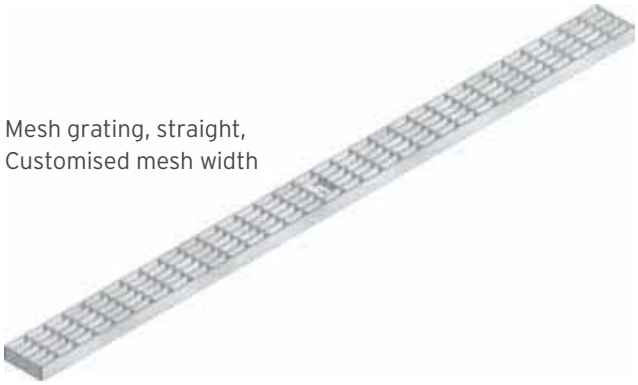
Perforated grating, straight, Customised hole shape and pattern



Lateral bar grating, straight Customised bar spacing



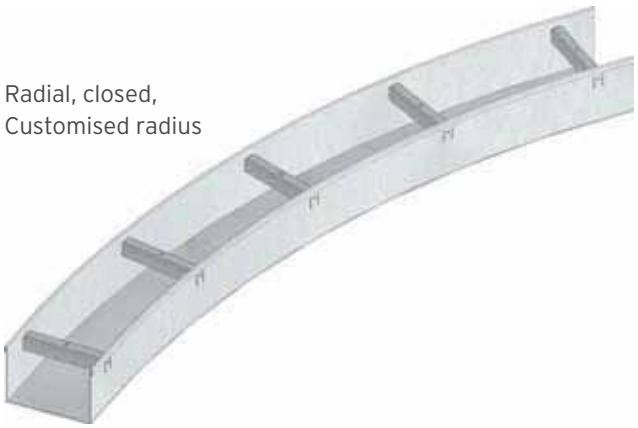
Mesh grating, straight, Customised mesh width

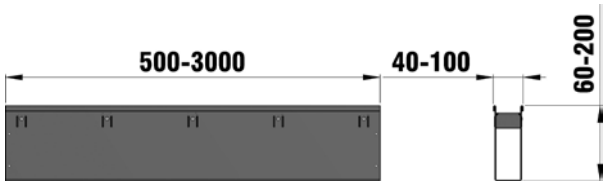


Design square channels

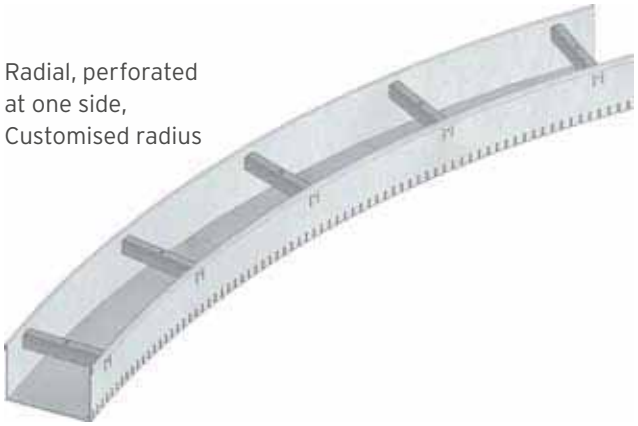
SLIM LINE CHANNEL radial channels

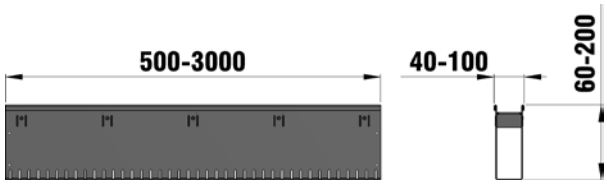
Radial, closed,
Customised radius



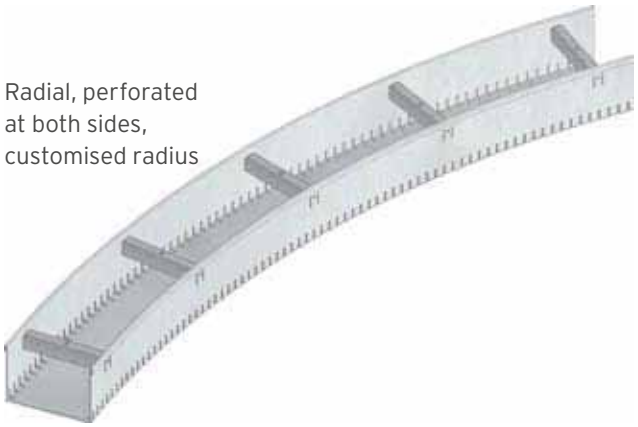


Radial, perforated
at one side,
Customised radius





Radial, perforated
at both sides,
customised radius



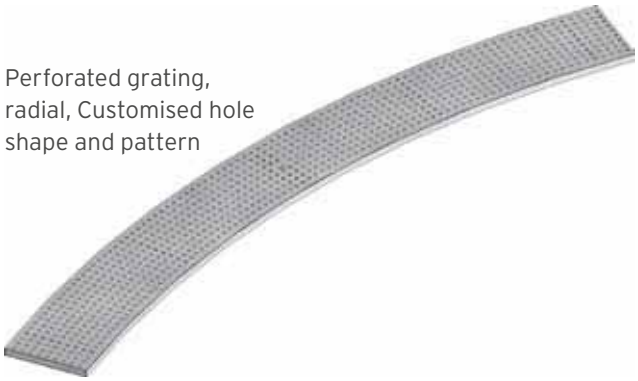
All dimensions correspond to the usual practical requirements in accordance with our experience.
Tailor-made solutions are possible:

- ☐ any size (radius, width, height,...)
- ☐ built-in fall
- ☐ lock-down possibilities
- ☐ concrete anchor ties
- ☐ accessories (foul air traps, mud buckets,...)

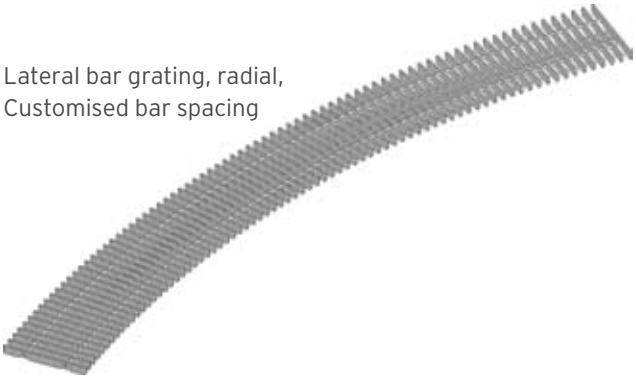
SLIM LINE CHANNEL radial gratings

Longitudinal bar grating, radial, Customised bar spacing

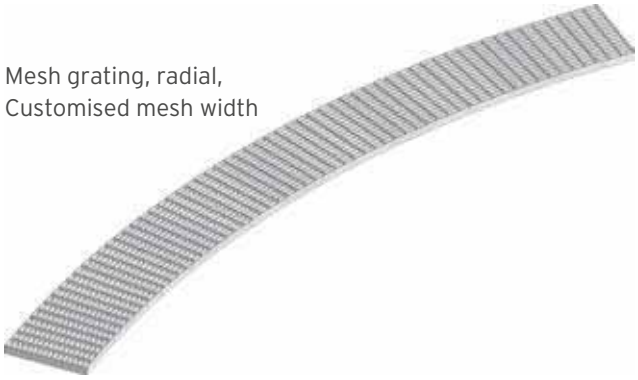
Perforated grating, radial, Customised hole shape and pattern



Lateral bar grating, radial, Customised bar spacing



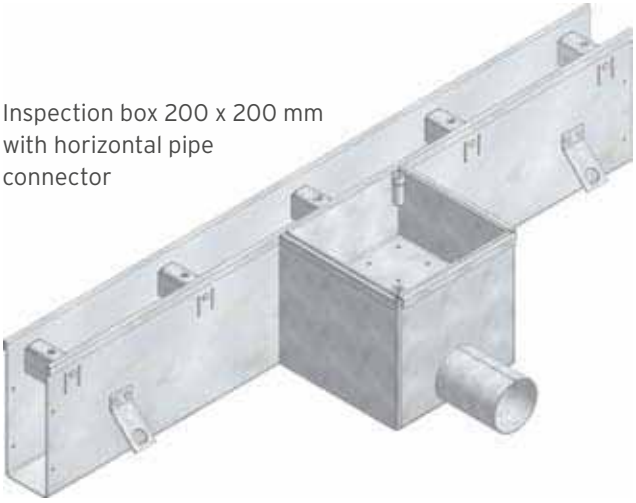
Mesh grating, radial, Customised mesh width



Design square channels

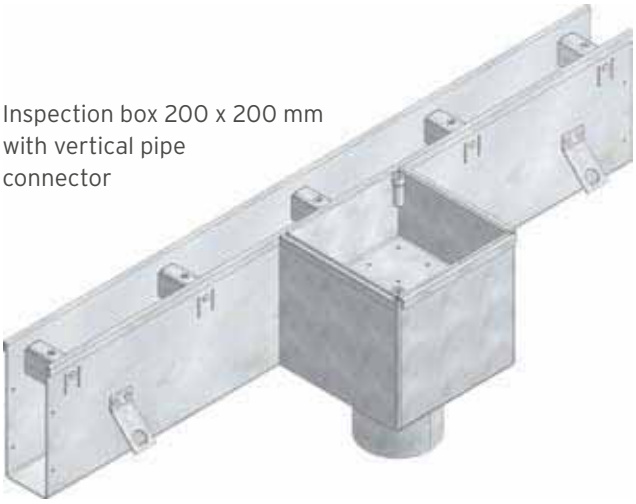
SLIM LINE CHANNEL accessories

Inspection box 200 x 200 mm with horizontal pipe connector



End cap, pre-installed

Inspection box 200 x 200 mm with vertical pipe connector



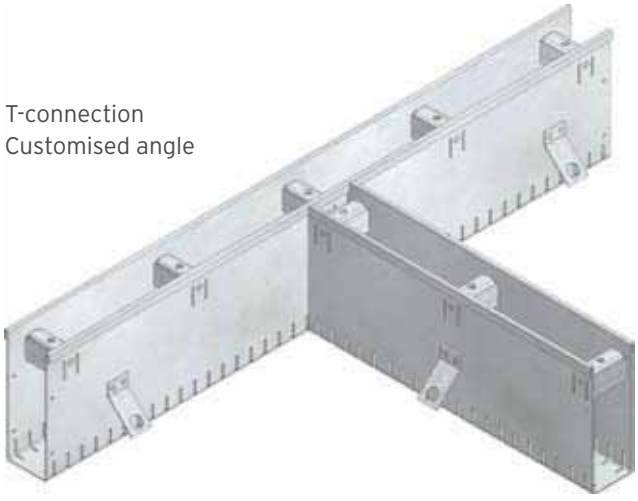
Channel connection piece, pre-installed

Horizontal pipe connector,
pre-installed

Corner element,
Customised angle

Vertical pipe connector,
pre-installed

T-connection
Customised angle



Reference Project

BESPOKE STAINLESS STEEL CHANNELS & RECYFIX® SLOTTED CHANNELS

Example of customised, specially manufactured products.

Central St Giles, Holborn, London

Central Saint Giles in London's West End, is more than just a new office building. Designed by internationally renowned architects Renzo Piano and Fletcher Priest, this ultra-modern complex combines office areas, retail businesses, restaurants, cafes, residential properties and open spaces that include an extensive public piazza and roof gardens for use by the buildings occupants. Completed in 2010, Central Saint Giles is 12 stories tall and provides 37,961 m^2 (408,560 ft^2) of high quality office floor space.

Drainage of the building's paved piazza area was achieved with 600m of RECYFIX® SLOTTED CHANNELS with symmetrical and asymmetrical slot inlets. Rainwater falling on the roofs and piazza is collected, treated and stored for re-use in irrigation of the planted areas. It is estimated around 3000m^3 of water could be collected per year. This, with other carbon saving features gives the development an excellent BREEAM rating.

Andy Beirne, HAURATON'S project engineer commented, "Managing a major building site in a very busy part of London was no mean feat for the main contractor, Bovis Land Lease and landscape contractor, Grants International. All the surface water drainage components we supplied had to be easily transported and installed without the use of handling machinery, so our channels, at no more than 17 kg per unit, were found to be ideal for the job".

The RECYFIX® channel components, made from our 100% recycled PE-PP were matched with galvanised steel slotted inlets with neck height and slot width specially made to match the decorative stone paving slabs used.

HAURATON also supplied BESPOKE STAINLESS STEEL CHANNELS fitted with stainless steel, longitudinally slotted heel-safe gratings located in front of the entrance doors.

Central St Giles - BESPOKE STAINLESS STEEL CHANNELS with HEELSAFE gratings fitted at entrance doors

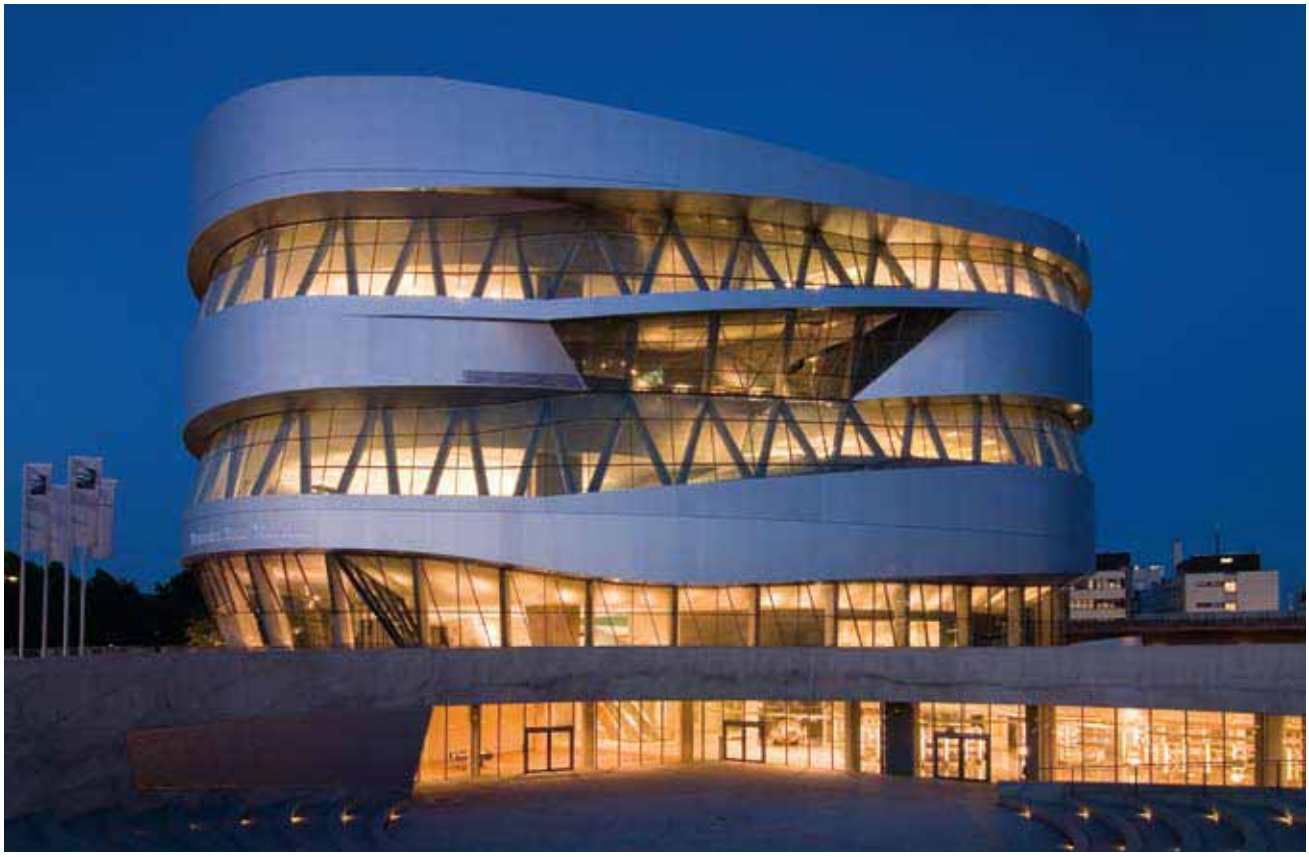
Reference projects

SLIM LINE CHANNEL channels.
Examples of customised, specially manufactured products.

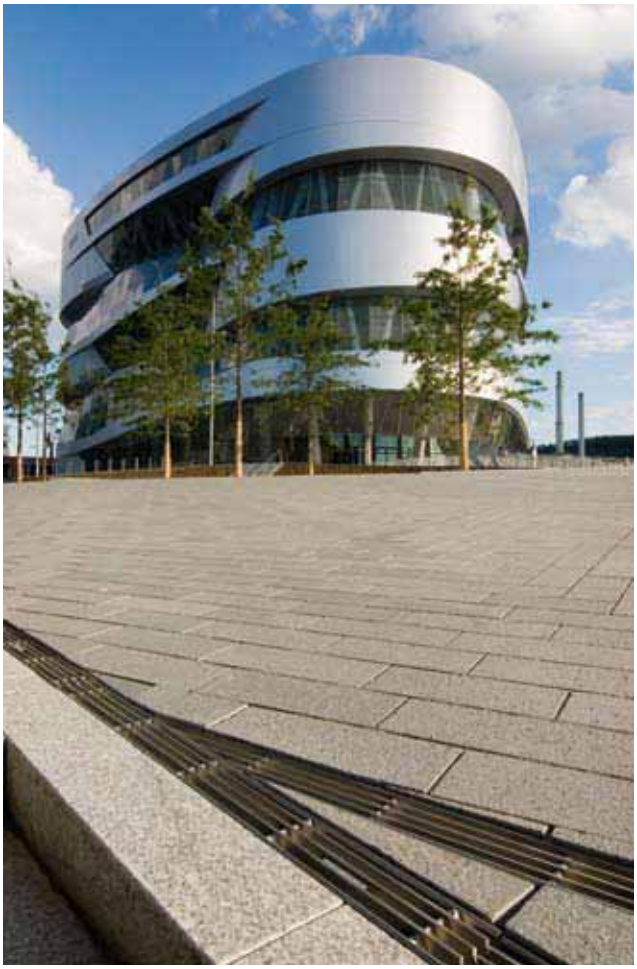
Stuttgart, Mercedes-Benz Museum

The new Mercedes-Benz museum in Stuttgart was opened in May 2006, since when it has been a symbol of cutting edge architecture and structural engineering. It is the world's biggest car museum that is devoted to a single make, and is one of Stuttgart's most important tourist attractions. Up to 720,000 visitors per annum from all over the world are expected at the historical site close to the Untertürkheim plant, which is considered to be the birthplace of the car.

Modern architecture makes special demands in many details – and it is no different as far as surface drainage is concerned. The planners of the outdoor systems of the Mercedes-Benz museum put their faith in HAURATON drainage channels. It was therefore possible to develop extremely demanding channel systems that integrate perfectly into the overall architecture and fulfil all requirements, such as a facade Design slotted channel with longitudinal bar grating and removable side



A masterpiece of modern architecture – the Mercedes-Benz Museum in Stuttgart.



The stainless steel drainage channels were individually developed in accordance with planner specifications.

The facade is drained via a channel with a longitudinal bar grating and removable side wall. Special inspection boxes provide access to the channel.

wall. Any facade elements that become damaged are easy to replace with the channel installed.

The required drainage capacity is calculated using a state-of-the-art hydraulic program, which has been specially developed by HAURATON.

The unusual architecture of the Mercedes-Benz museum makes considerable demands of planning, manufacture, logistics and installation. All products were planned three-dimensionally with the aid of a CAD system, which made it possible to check the visual, functional and technical requirements at the pre-planning stage. This means that planners and the property developer were involved in the drainage planning at an early stage, until the optimum channel was finally tendered. The employees in the HAURATON project team accompanied the construction company from site measurement to project-specific manufacture of the channels, the installation thereof and final acceptance.

Many special situations that did not occur until on-site installation at the Mercedes-Benz construction site were dealt with flexibly, spontaneously and with considerable expertise. For example, the exclusive design of the museum facade made extremely high demands of the measurements carried out by HAURATON. Each of the approx. 380 m facade channels is one of a kind, and is a one-off in the overall construction project with regard to length and mitre cut. These channels could only be manufactured and delivered within an extremely short time by means of perfect interaction between the HAURATON project team, the CAD team and the production department.

Overall, the following drainage channels were installed by HAURATON in the building of the Mercedes-Benz museum:

- 1500 m of individually manufactured channels with a straight, polygonal and radial design
- 220 m of FASERFIX SUPER channels

Tender proposal

SLIM LINE CHANNEL channel

1. ___ pc. **SLIM LINE CHANNEL channel**
Material _____, edged in a u-shape, incl. lateral bars as spacers and for supporting the grating, channel walls variable (closed, perforated at one or two sides), possible radial version with radius R;
channel width B _____,
Channel height H _____,
Channel length L _____
Quality in accordance with ISO 9001:2008
Manufacturer: e. g. Hauraton Ltd
Unit 4, Frenchs Avenue
Dunstable. Beds. LU6 1BH
Tel. 01582 501380
Fax 01582 501399
technical@hauraton.co.uk

Gratings

2. ___ pc. **Longitudinal bar grating**
Material _____, FL 20/3 or 20/5, bar spacing 10 - 12 mm, flush, load-bearing, screw fixed, Grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

3. ___ pc. **Lateral bar grating**
Material _____, FL 20/3 or 20/5, bar spacing 15 mm, flush, load-bearing, screw fixed, grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

4. ___ pc. **Perforated grating**
Material _____, Ø 6 - 10 mm, flush, load-bearing, screw fixed, Grating width B _____ (suitable for above-mentioned channel) Grating height H _____, Grating length L _____

Accessories

5. ___ pc. **End cap addition**
Material _____, pre-installed in the factory

6. ___ pc. **Channel connection piece addition**
Material _____, pre-installed in the factory

7. ___ pc. **Inspection box addition**
Material _____, suitable for above-mentioned SLIM LINE CHANNEL channel, with perfect visual integration in the channel, with vertical/ horizontal discharge pipe connector DN 70/100 and removable inner tray for filling by the customer; L/W = 200/200 mm

8. ___ pc. **Discharge pipe connector addition**
DN 70/100 vertical / horizontal, material _____, pre-installed in the factory

9. ___ pc. **Corner element addition**
pre-installed in the factory, maximum leg length approx. 500 mm

9. ___ pc. **T-connection addition**
pre-installed in the factory, maximum leg length approx. 500 mm

11. ___ pc. **Transition element addition**
from radial to straight, pre-installed in the factory

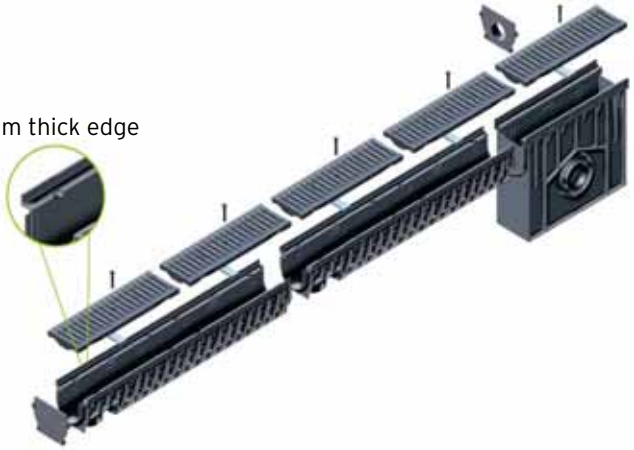
Other products to consider

RECYFIX® PRO channels with FIBRETEC® grating
STAINESS STEEL PERFORATED grating

RECYFIX® PRO channels

HAURATON has developed a tough injection moulded grating called FIBRETEC® for their RECYFIX® PRO 100 range of surface water drainage channels. The FIBRETEC® grating, moulded from a fibre strengthened Polyamide (PA-GF) is offered in two innovative designs. The slotted version allows loadings up to Class C250 (BSEN 1433) whilst the GUGI® pattern grating is for loadings up to B125.

The RECYFIX® channel component is made from 100% recycled PE-PP. The six sizes offered are 160mm wide and range in height from 75mm to 201mm with the FIBRETEC® grating factory fitted on all models. As the largest unit is only 4.6kg, this robust system is quick and easy install. The company says the system is particularly suitable for educational establishments, air and bus terminals, railway stations and ferry ports – passenger side.
A Matching trash box and end caps are also offered.



STAINESS STEEL PERFORATED grating

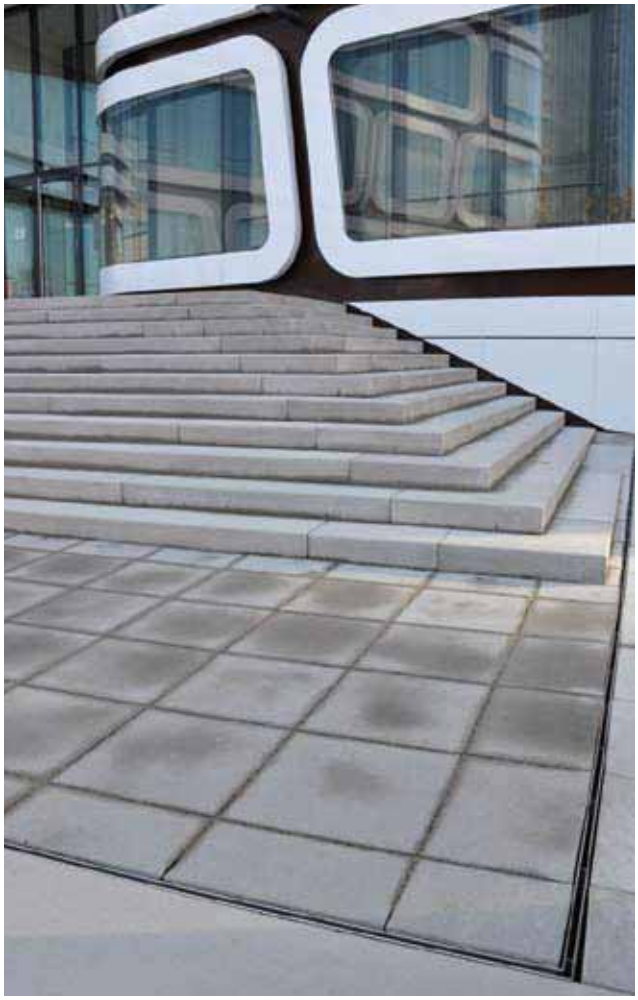
Customised perforated gratings are available on a number of channel ranges. Gratings or this type are especially useful in semi enclosed areas.
For further details please telephone 01582 501380 or email your request via technical@hauraton.co.uk

Design slotted channels

Design slotted channels

Design slotted channels are extremely unobtrusive drainage systems. HAURATON can provide many variants to supplement the standard range of products. This makes it possible to create cross connections and T connections that drain surfaces reliably, divide areas up or neatly separate different surface coverings. Symmetrical and asymmetrical Design slotted channels made from stainless steel or galvanised steel are available as an individual solution. They are particularly useful for radial laying next to bi-parting drum slider doors, in open areas and on facades.

Design slotted channels also provide a high degree of flexibility with regard to length, width, height and slot width. Individual lengths of up to 3 metres have increased the laying speed significantly The channel walls can be optionally perforated at one or two sides. These channels are used for draining facades and the surfaces of open areas. Load classes A 15 – D 400 should be implemented depending on the technical design. They can be manufactured using materials stainless steel 304 and 316 and strip-galvanized or hot-dip galvanised steel.



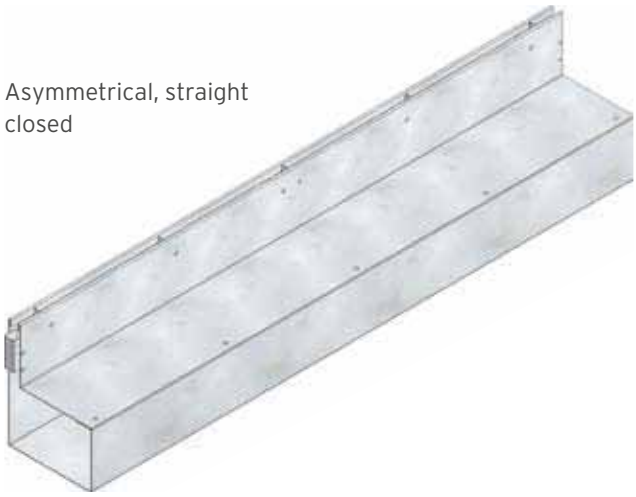
asymmetrical

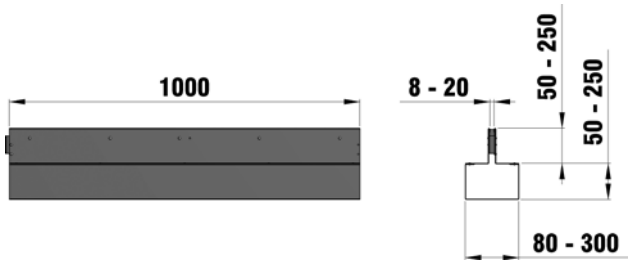
symmetrical

Design slotted channels

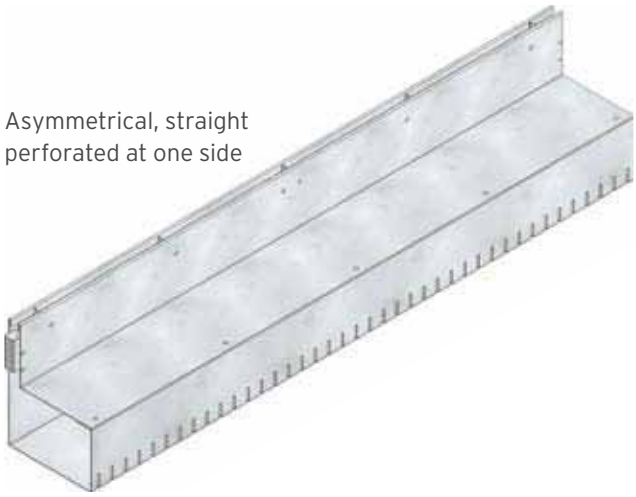
Asymmetrical Design slotted channels

Asymmetrical, straight closed

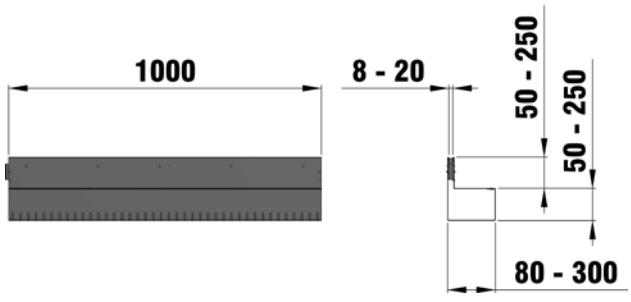




Asymmetrical, straight perforated at one side



Asymmetrical, radial closed, Customised radius



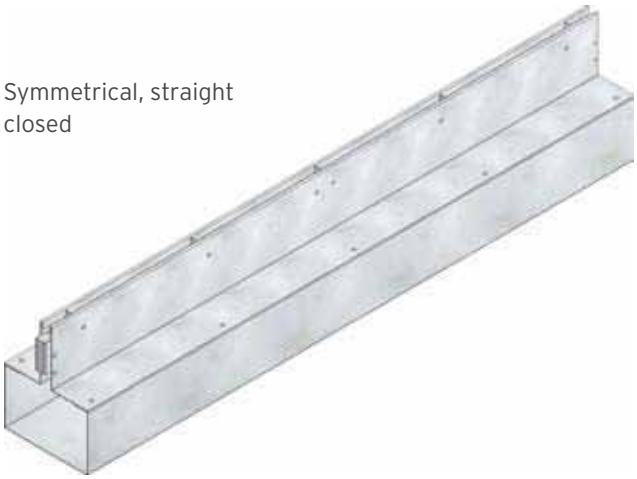
Asymmetrical, radial perforated at one side, Customised radius

All dimensions correspond to the usual practical requirements in accordance with our experience. Tailor-made solutions are possible:

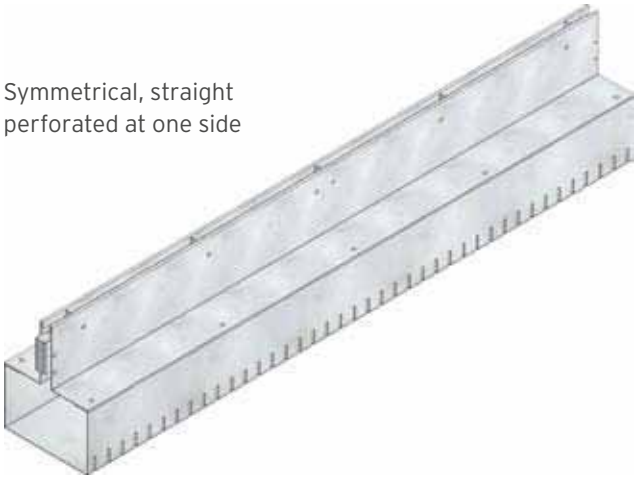
- ☐ any size (radius, width, height,...)
- ☐ built-in fall
- ☐ lock-down possibilities
- ☐ concrete anchor ties
- ☐ accessories (foul air traps, mud buckets,...)

Symmetrical Design slotted channels

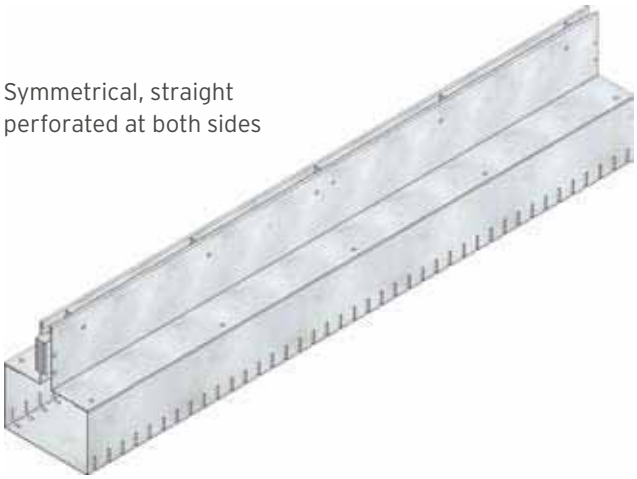
Symmetrical, straight
closed



Symmetrical, straight
perforated at one side



Symmetrical, straight
perforated at both sides



Gratings for Design slotted channels

Perforated grating, round

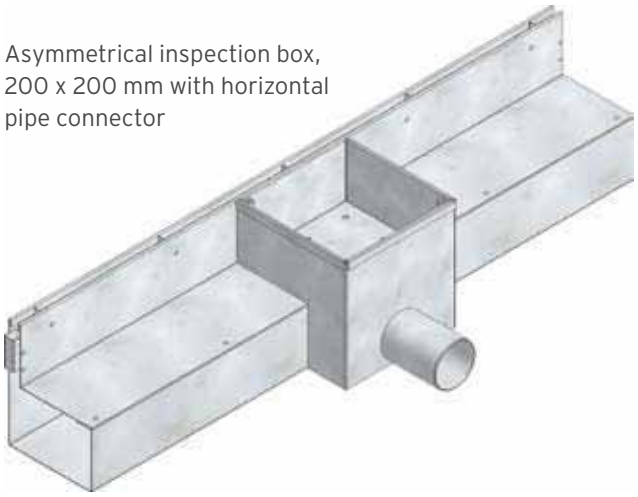
Perforated grating, square

Longitudinal bar grating

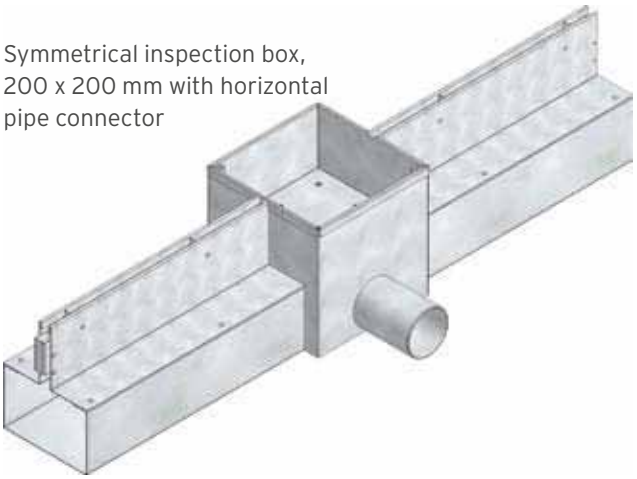
Design slotted channels

Accessories for Design slotted channels

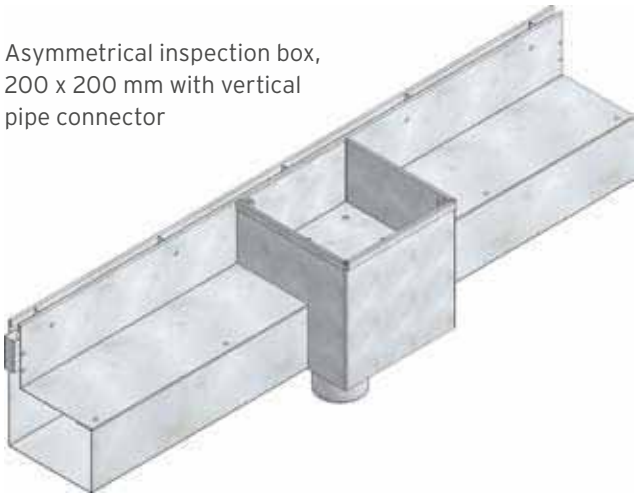
Asymmetrical inspection box, 200 x 200 mm with horizontal pipe connector



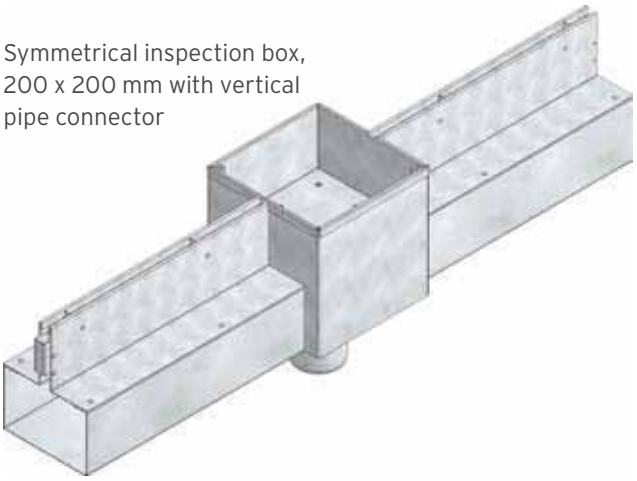
Symmetrical inspection box, 200 x 200 mm with horizontal pipe connector



Asymmetrical inspection box, 200 x 200 mm with vertical pipe connector



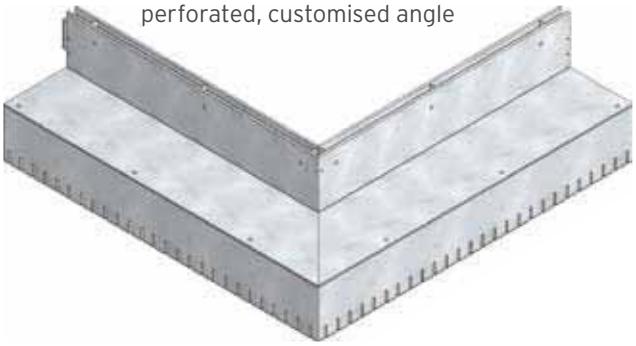
Symmetrical inspection box, 200 x 200 mm with vertical pipe connector



End cap, asymmetrical,
pre-installed

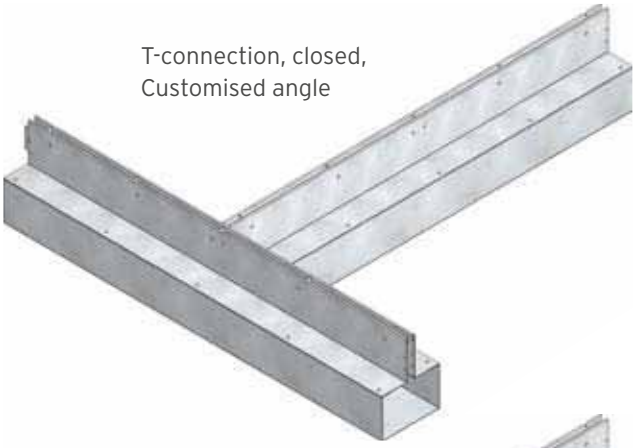
Corner element, asymmetrical,
closed, customised angle

Corner element, asymmetrical,
perforated, customised angle

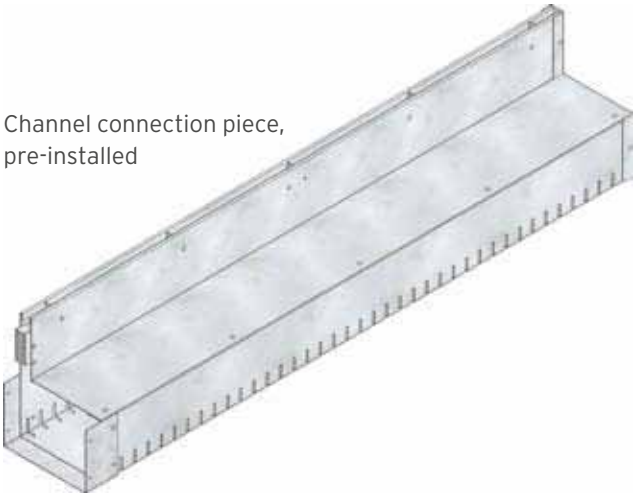


End cap, symmetrical,
pre-installed

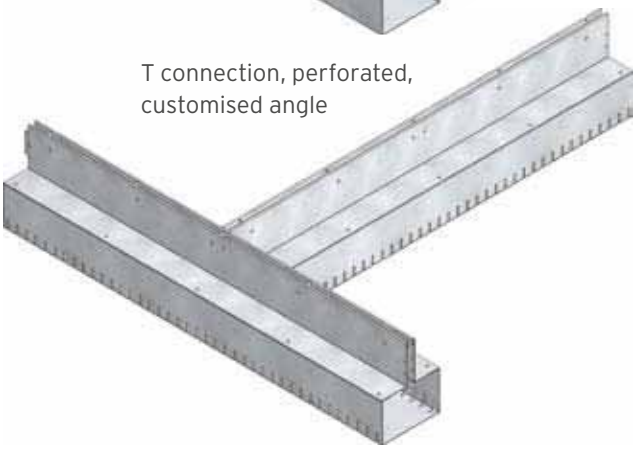
T-connection, closed,
Customised angle



Channel connection piece,
pre-installed



T connection, perforated,
customised angle



Reference projects

Design slotted channels.
Examples of customised, specially manufactured products.

Basel, Novartis

Novartis, Switzerland's biggest health company, puts its faith in HAURATON channels for draining its new building. Made-to-measure planning support from the project diagram, the hydraulics, the routing plans through to the finished product impressed the architects and engineers. The following HAURATON drainage channels were installed at Novartis: 200 m of solid stainless steel Design slotted channels with different radii, will bear the weight of a lorry.

Stuttgart, Heilbronner Straße, Z-Up Building

The Geno-Haus and the Z-Up building are adjacent to each other in Heilbronner Strasse in the centre of Stuttgart. The cityscape of the state capital is dominated by service centres with their striking architecture. Offices, conference rooms, apartments, underground car park – there are many uses for the space in the modern buildings.

The demands made of the drainage systems are just as diverse. They must be reliable, they must collect and divert surface water, they must withstand the different stress requirements and they must also match the building and area concepts from a visual point of view. These challenges were met using a clever combination of FASERFIX SUPER KS channels and individually manufactured Design slotted channels made from stainless steel – both from HAURATON.

Reference projects

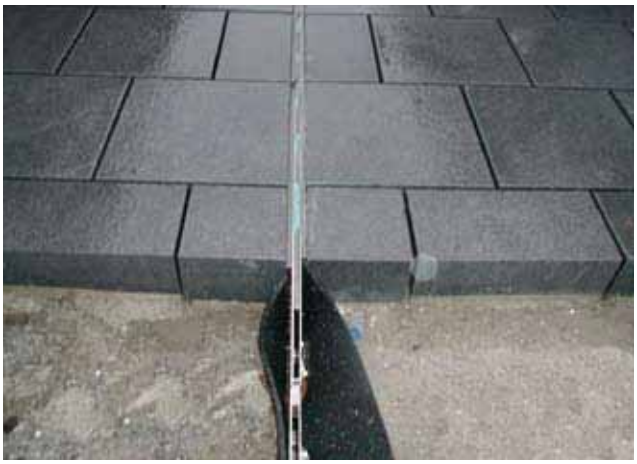
Slotted channels.
Examples of customised, specially manufactured products.

BASF Visitor Centre

The new BASF visitor centre opened in the Spring of 2007. About 50,000 visitors come to the Ludwigshafen plant every year. The new visitor centre enhances the site, and provides a representative address for visitors who wish to see the plant. Visitors can enter the visitor centre directly from the outside. The entire south area of the building has been redesigned for this purpose. The roof has also been replaced with a glass structure, which the visitors can access via five levels. The visitor centre has an area of about 2000 square metres.

The square in front of the visitor centre has been given a modern and attractive design. A central area has been created in front of the building next door, which can also be used for events such as open days. In accordance with these requirements, visually inconspicuous and extremely durable Design slotted channels from HAURATON have been installed for surface drainage. The special feature of these is the slotted grating made from 4 mm stainless steel with a neck height of 280 mm, which is load-bearing up to class D 400. The solid structure makes it possible to lay the paving (which has also been specially made for the construction project, and is 160 mm thick) directly next to the slotted grating. As the lower section, the FASERFIX SUPER 150 channel provides sufficient hydraulic performance.

The new BASF visitor centre in Ludwigshafen.



160 mm thick paving is laid along the slotted channel.

The SIDE-LOCK boltless locking system and 6-point screw fixing per running metre provide double security in attaching the grating to the channel. The branch is maintained via special inspection covers, which visually blend in to the drainage channel.

The newly designed roof terrace is drained via 260 m of DACHFIX special model, 250 mm wide and with adjustable height. The DACHFIX components fulfil all structural requirements of the project due to made-to-measure production.

The new BASF visitor centre in Ludwigshafen – an architectural highlight which the company and its visitors will enjoy for some time to come!

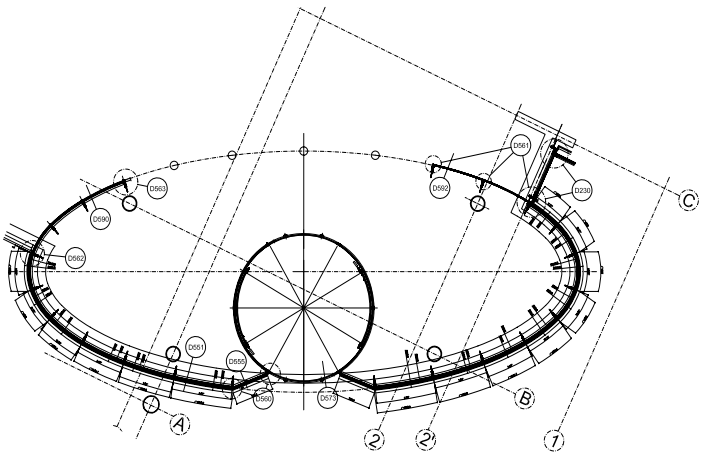
Installation of the solid Design slotted channel with grating made from 4 mm thick stainless steel and 280 mm neck height.

Reference projects

Slotted channels.
Examples of customised, specially manufactured products.

Hagen, Building Society

The building has an elliptic basic design, into which a bi-parting drum slider door is incorporated as an entrance. A radial slotted channel made from stainless steel follows the entire contour of the building and drains the entire glass facade.



Tender proposal

Slotted channels

1. ___ pc. **Slotted channels**
Material _____, with asymmetrically/symmetrically arranged inlet slot, riveted version with reinforced visible edge, with single edging to suit height of surface covering, load-bearing, slot width SW approx. 12.5 mm, neck height HH variable, overall height GH variable, channel width B variable, channel length L variable. Supply possible radial design with radius R, and route in accordance with the manufacturer's installation instructions.
Quality in accordance with ISO 9001:2008
Manufacturer: e.g. Hauraton Ltd
Unit 4, Frenchs Avenue
Dunstable, Beds. LU6 1BH
Tel. 01582 501380
Fax 01582 501399
technical@hauraton.co.uk

Accessories

2. ___ pc. **Addition of perforated grating**
for above-mentioned slotted channel, material _____, with round/square perforations

3. ___ pc. **Addition of longitudinal bar grating** for above-mentioned slotted channel, material _____

4. ___ pc. **End cap addition**
Material _____, pre-installed in the factory

5. ___ pc. **Channel connection piece addition**
Material _____, pre-installed in the factory

6. ___ pc. **Addition of inspection box**
Material _____, suitable for above-mentioned slotted channel, with perfect visual integration in the channel, with vertical/horizontal discharge pipe connector DN 70/100 and removable inner tray for filling by the customer; L/W = 200/200 mm

7. ___ pc. **Corner element addition**
pre-installed in the factory, maximum leg length approx. 500 mm

8. ___ pc. **T-connection addition**
pre-installed in the factory, maximum leg length approx. 500 mm

9. ___ pc. **Transition element addition**
from radial to straight, pre-installed in the factory

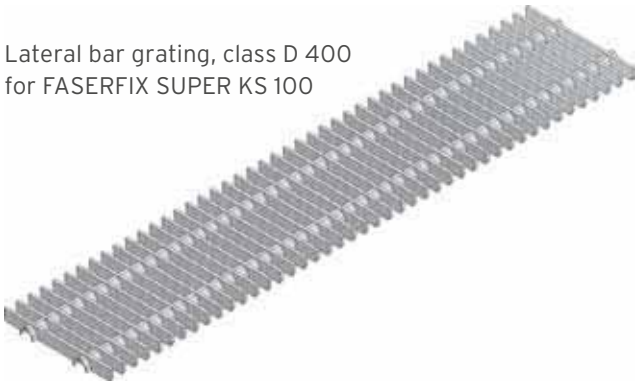
Individual gratings

Individual gratings for channels and single point inlets from the standard product range

All channels and single-point inlets from the entire HAURATON product range can be combined with individual gratings. Convince yourself of the wide range of surface water drainage options in the other catalogues in our planning folder, and speak to our experts in the specialist department.

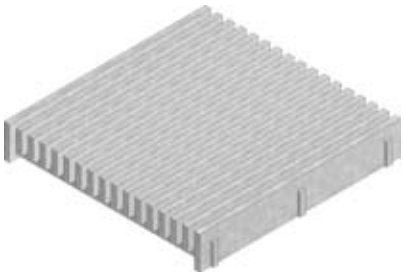
For example, we are introducing the following solutions from this area:

Lateral bar grating, class D 400 for FASERFIX SUPER KS 100



FASERFIX SUPER channel with individually manufactured slope gradient and lockable grating

Longitudinal bar grating class D 400 for FASERFIX POINT SUPER 40/40



Star design grating V2A for RECYFIX POINT

Perforated grating, round V2A for RECYFIX POINT

Frame for longitudinal bar grating class D 400 for FASERFIX POINT SUPER 40/40

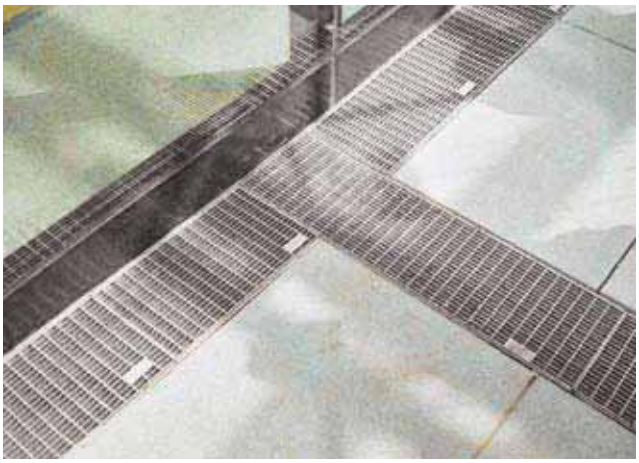
Perforated grating, square V2A for RECYFIX POINT

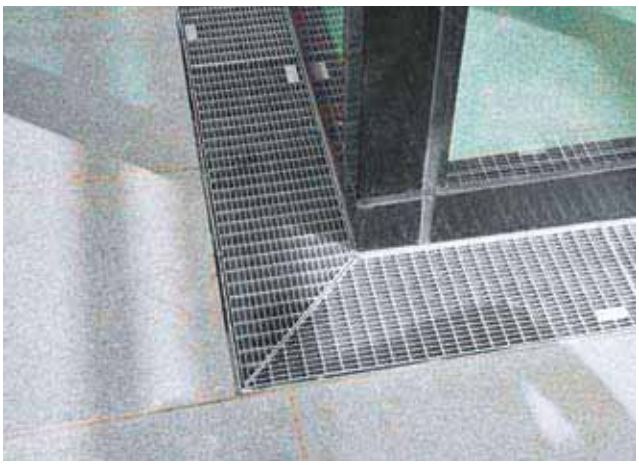
References

Combination of individual solutions and products from the HAURATON product range.
Example of customer-specific special designs.

Dresden, Wiener Platz

Wiener Platz is the busiest traffic intersection in Dresden. Trains, cars, busses, trams, bicycles and wheelchairs are networked with each other on different interconnected levels. In order to provide a visually attractive surface and facade design, FASERFIX SUPER channels and FASERFIX POINT yard trash boxes were equipped with customised mesh gratings made from stainless steel.
A special challenge for the property developer and the planners was the narrow mesh width of the gratings, which needed to provide safety for pedestrians, cyclists and people in wheelchairs and also prevent large dirt particles from penetrating the drainage system.
This resulted in a harmonious overall impression that takes the outstanding architecture into account.





References

Combination of individual solutions and products from the HAURATON product range.
Examples of customised, specially manufactured products.

Berlin, O_2 World

"O_2 World" on the site of the former Ostgüterbahnhof (East Goods Station) has been considered to be one of the most modern multifunctional arenas in the world since its completion in Autumn 2008. There is room for 17,000 visitors in the building, who watch the home matches of ALBA Berlin (basketball) and the Berlin Eisbären (Berlin Polar Bears ice hockey team) and other major sporting and cultural events.

The following HAURATON channels were used for surface and facade drainage:

- radial facade slotted channel with grating
- radial DESIGN LINE box channel with mesh grating for being driven over by heavy loads
- radial slotted channel for being driven over by heavy loads
- FASERFIX SUPER KS 150 with mesh grating

Frankfurt, Main Tower

DACHFIX channel, polygonal with perforated grating. The Main Tower is the fourth highest skyscraper in Frankfurt at 200 metres. The viewing platform is drained by polygonal laid DACHFIX channels, which have been adapted in two branches with different diameters to the round cross-section of the tower.

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LU6 1BH
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Fax. 01582 501399
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WWW.HAURATON.CO.UK

For Case Studies go to www.drainage-projects.co.uk

Right reserved to make technical changes, in the interest of progress.

01/2012 | Printed in Germany
Illustration, dimensions and weights are non-binding!

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Material

FASERFIX Concrete

Naturally sustainable.
Extremely tough.

NEW:
Now reinforced with basalt fibres

At a glance

FASERFIX.
Strong Material for reliable and long-lasting Drainage Solutions.

Fibre-reinforced concrete is ...	Page
... resource-friendly	4 - 7
... recyclable	8 - 11
... strong	12 - 15
... reinforced with basalt fibres	16 - 19
... watertight	20 - 23
... emission-free and fireproof	24 - 25
... hydraulically efficient	26
... energy-efficient	27

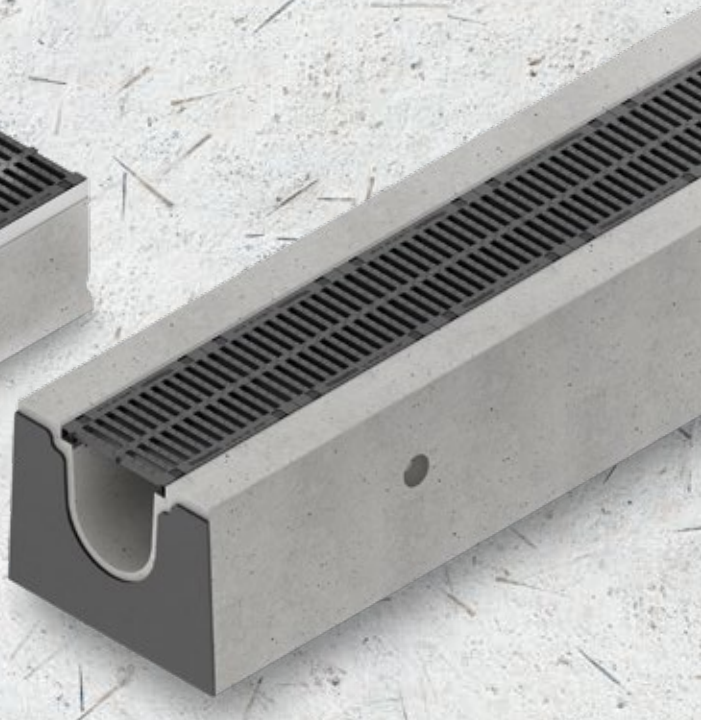
The FASERFIX Products

Drainage channels have long been made of conventional concrete. HAURATON have been using fibre-reinforced concrete for channel production since the early 1970s. Read in this brochure why this material is the perfect building material for drainage systems.

FASERFIX STANDARD
Solid drainage channel
for private and public areas
through easy self-installation.

FASERFIX KS
Sturdy and efficient drainage
channels for commercial
and public areas.

FASERFIX SUPER
Drainage channels
for extreme loads and high
dynamic forces.



FASERFIX BIG BLS
Drainage channels as reinforced
concrete prefabricated parts
for extreme loads and SFH
(storage filling & handling)
facilities.

Concrete is a sustainable material.

Cement as an essential component of concrete is produced in compliance with the strict legal Federal Emmissions Control Ordinance BImSchV. HAURATON procure their cement exclusively from plants that also operate in voluntary environmental and energy commitment systems in accordance with ISO 14001 and 50001 and thus ensure the sustainable and energy-efficient production of the material. All aggregates used are also resource-friendly and ecological.

Concrete is resource-saving.

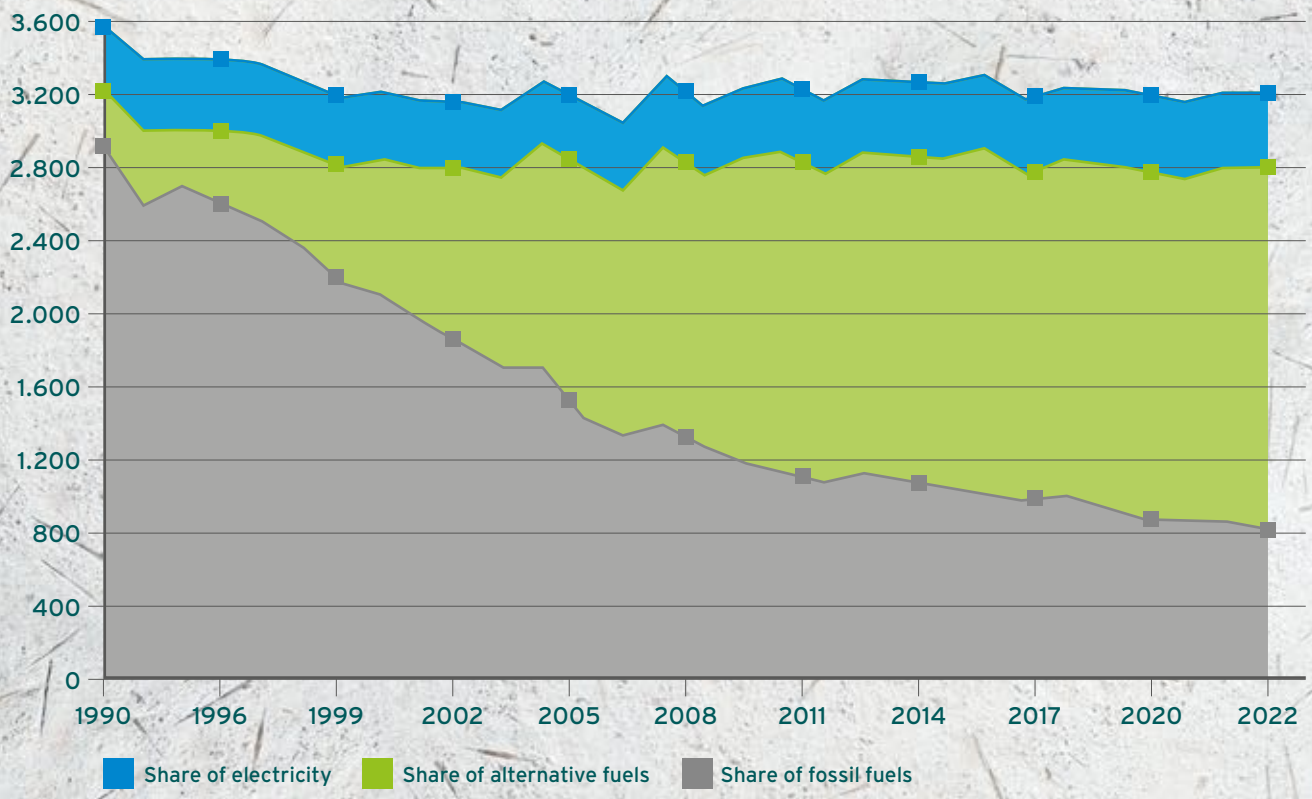
Natural, secondary products are used in the production of our concrete. For example, our cement contains trass, a natural raw material from the group of so-called natural pozzolans. We also add rock flour to our concrete as an additive. These substances improve the performance of our concrete and reduce the use of CO_2-intensive fired Portland cement clinker.

Sustainable and ecological ...

Today, cement is produced sustainably and resource-conserving.

Primary energy sources (oil, coal, etc.) have been increasingly replaced by alternative fuels in recent years. This trend is still continuing today.

Specific energy input in kJ/kg cement



Source: German Cement Works Association, Cement industry at a glance brochure, 2022

Secondary materials in cement conserve natural resources.

The following secondary materials are used in cement production:

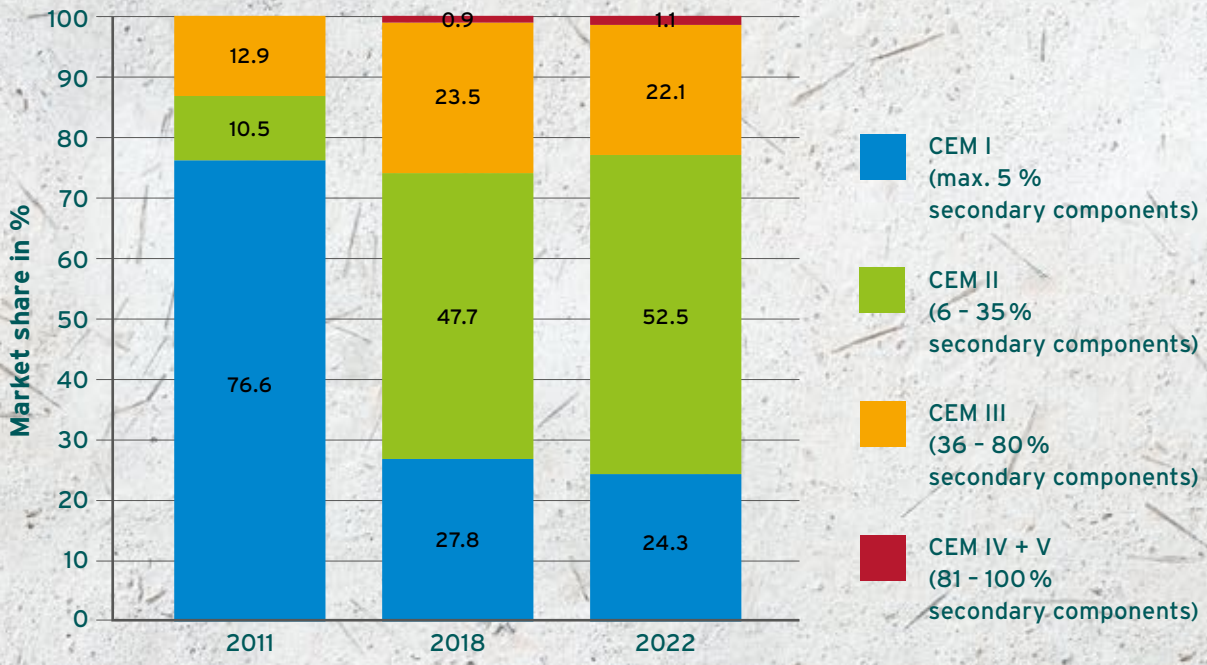
- **Trass flour** as pozzolanic binder
- **Rock flour** as filler

The result: conservation of natural resources by **approx. 10 million tonnes** per year while at the same time relieving and improving the concrete properties of landfill sites by **approx. 10 million tonnes** per year!

Source: Verein Deutscher Zementwerke e. V., Study Resources of the future for cement and concrete, 2022

Conservation of resources through the use of by-products, e.g. from the steel industry.

The market share of cements with secondary materials is continuously increasing, resulting in a significant reduction in CO_2 emissions.



Source: German Cement Works Association

Concrete is fully recyclable.

Concrete demolition waste is processed by crushing and sifting it. Concrete chippings and crushed concrete sand are produced. The aggregates can be used, among other things, bound as aggregate for concrete, as a secondary raw material in cement and unbound in road construction or as a binder in oil spills.

Concrete is natural.

What is needed to produce concrete is supplied by nature. The main ingredients are sand, gravel, water and cement. Cement consists mainly of limestone or chalk and clay and, together with water, forms the cement paste that binds the aggregate together and creates an extremely hard and robust composite material. At HAURATON, these raw materials are sourced from local producers using short transport routes.

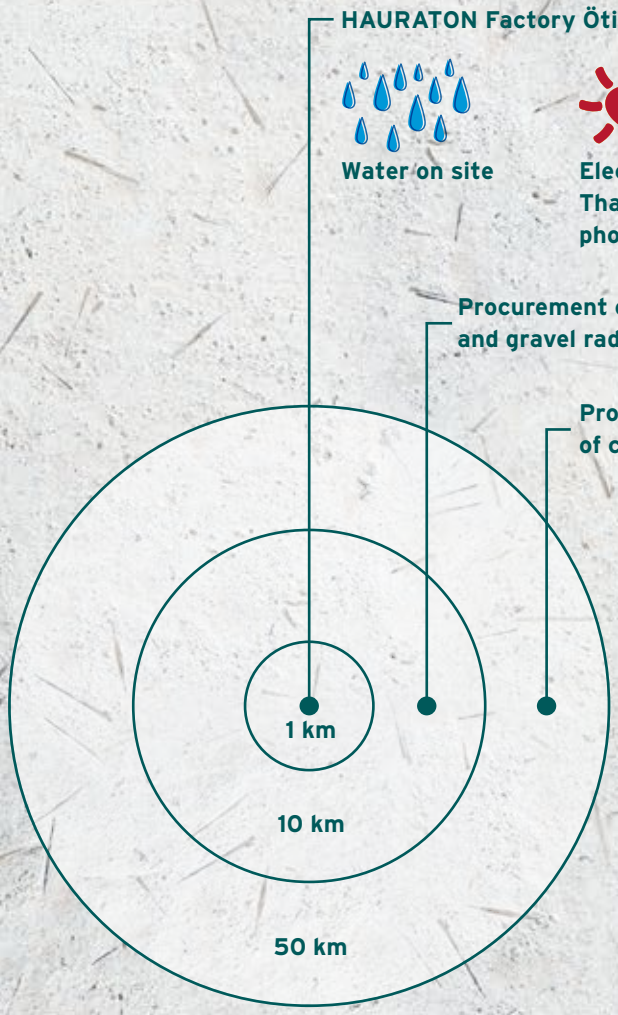
hauraton

… natural and recyclable

Material **FASERFIX** Concrete | Recyclable

Concrete is sustainable and can be recycled.

The raw materials for FASERFIX concrete are procured from sustainable producers using short transport routes.



Concrete is a completely recyclable material.

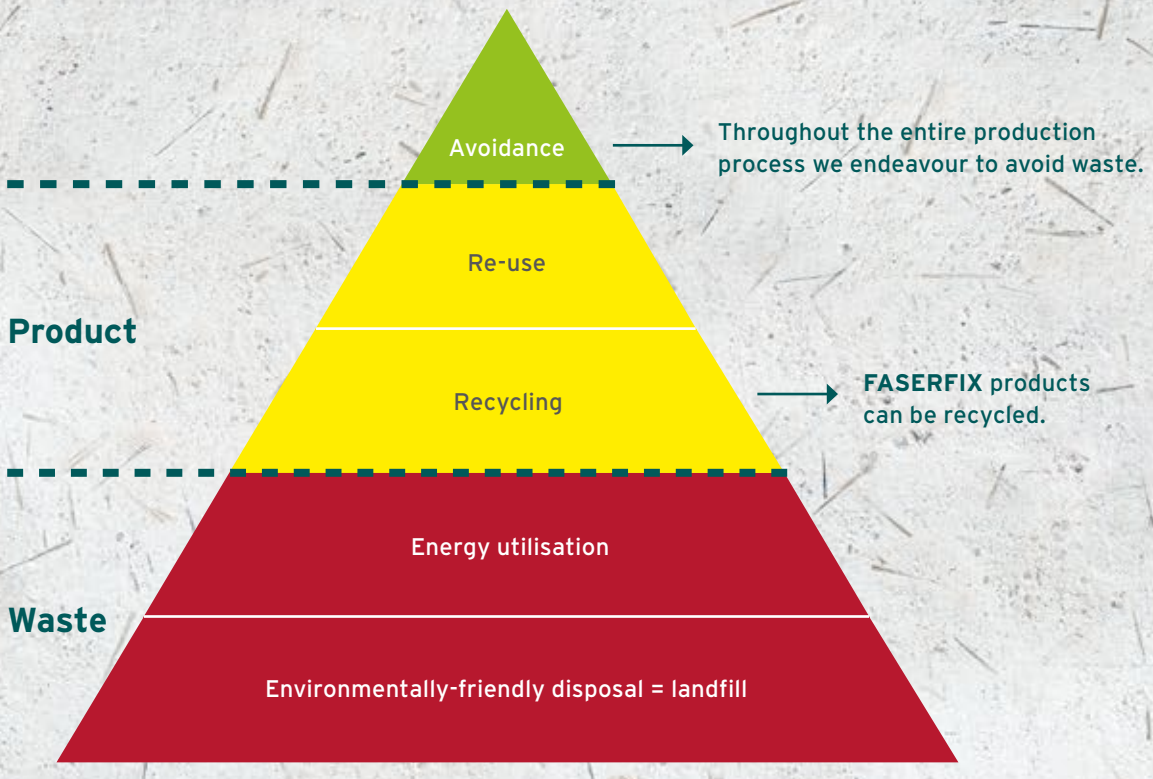
- Concrete rubble is crushed and sifted.
- The aggregates are reused in the construction industry.
- In 2020, **93.9 %** of the construction waste produced (of which **78.8 %** was recycled) and more than **97.5 %** of the road demolition waste (of which **92.9 %** was recycled) was already utilised! *
- Purely mineral concrete mix.

* **Source:** 13th Monitoring Report 2020 - Kreislaufwirtschaft Bau

Concrete recycling, re-use e.g. in road construction.

FASERFIX is a recyclable raw material according to the European Waste Hierarchy.

The Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste establishes the legal framework for the management of waste in the European Community. It contains important concepts such as waste, recovery and disposal, and contains important principles such as an obligation to manage waste in a way that does not harm the environment or human health. The top priority is to avoid waste. If this is not possible, materials should be recycled. This is possible with **FASERFIX** concrete.



Concrete is strong

Concrete keeps its shape.

Once concrete has been cast into a shape, it will retain this shape permanently. It will not shrink, remains reliably stable and can withstand heavy loads.

Concrete is a durable material.

Concrete is particularly durable and robust; concrete buildings hundreds of years old are still in use today. Durable lime mortar was used for building as long as 14,000 years ago.

Burnt lime was already used in the construction of the pyramids in Egypt. Later, the Romans developed the opus caementitium, from which the word cement is derived. Among other things, it was used to make the aqueducts and the dome of the Pantheon in Rome which spans 43 metres unsupported and is still well preserved today.

The Pantheon in Rome, built in 125 A.D.

Material **FASERFIX** Concrete | Strong

FASERFIX concrete particularly strong due to fibre reinforcement.

As early as the Middle Ages, clay was mixed with plant fibres and used for building houses. The great stability of fibre-reinforced concrete is based on this principle. As with trees, plants or bones, the fibres form an interwoven network that gives the concrete the highest degree of stability.

Clay wall reinforced with plant fibres.

Wood fibre boards get their high stability from a densely woven fibre network.

The special properties of FASERFIX concrete:

- Natural fibres from basalt
- Increased cohesion and stability
- Increased impact and shock resistance
- Better wear resistance

Macro view of **FASERFIX** concrete.
The fibres that give the material its high strength are clearly visible.

Cement

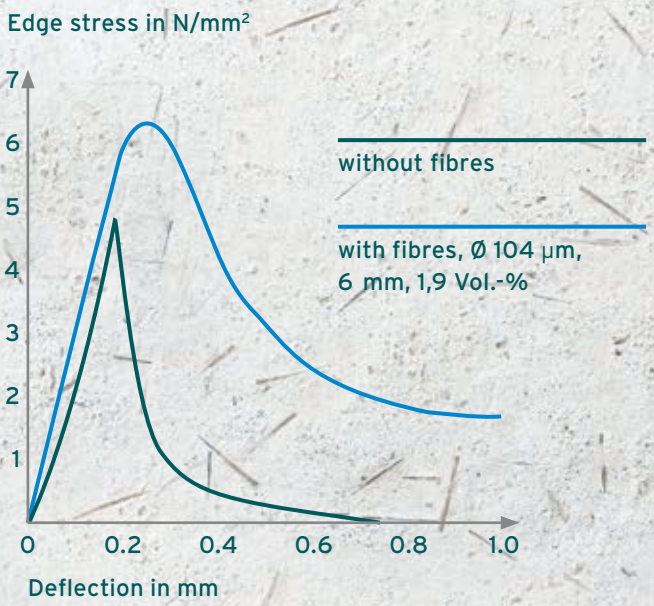
Basalt fibres

FASERFIX concrete – an ideal material for drainage channels in the heavy-duty sector.

So strong is **FASERFIX** concrete:

FASERFIX concrete achieves compressive strength class C 40/50 and far exceeds the requirements of EN 1433 (C 35/45).

Through the use of fibres, concrete achieves a significantly higher bending tensile strength than concrete without fibres.



Source:
Institute for Materials in Construction, University of the Federal Armed Forces Munich, brochure Special Concretes Fibre Concrete, spring trimester 2010. The load deflection of concrete beams without fibres was tested in comparison to concrete beams with DOLANIT fibres.

Sand

The material basalt

How is basalt created?

Basalt is a volcanic rock. It is formed from glowing hot magma. Around 10,000 years ago, magma rose to the earth's surface during a volcanic eruption. It came from at least 40 kilometres below the surface and had a temperature of up to 1200 degrees. As it cooled, the magma solidified into basalt rock. This has been happening for many geological eras - and is still happening today.

Material **FASERFIX** Concrete | Reinforced with basalt fibres

Basalt – from volcanic rock to FASERFIX concrete

Where is basalt found?

Basalt is found all around the world. Wherever there are active or extinct volcanoes, as in Iceland. Basalt even exists on Mercury, Venus and Mars, on the moon and on meteorites. But there is also a lot of basalt in Germany. It is mined, for example, in the Eifel and in the Rhön. Basalt occurs frequently and is a purely natural product.

Basalt is formed a thousand times more each year than we can use it. The raw material is particularly sustainable when mining and processing are close together and long transports are not necessary.

Use of basalt

Roads, pathways, floors, solid structures, facades, stairways, rail beds, space travel ...

Properties of basalt

Since basalt is formed on the earth's surface by rapid cooling and without pressure, it has a fine-grained and stable structure without crystals. This is what makes it so hard and resistant. Basalt fibres are incredibly flexible and resilient. It copes well with tension and pressure, with cold and heat, moisture and chemicals. But how does rock become fibre?

Basalt fibre production

The production of basalt fibres begins with the crushing and cleaning of the raw basalt. Then it goes into the melting furnace. The glowing melt is pressed through nozzles and drawn into thin threads with a diameter of 10 to 20 micrometres. This creates fibres that can be bundled and spun either into a long yarn or into short fibres.

Basalt fibres in FASERFIX concrete

It is precisely these basalt fibres that we find today in **FASERFIX** drainage channels. After decades of proven use in products and materials for space travel, they now also reinforce the **FASERFIX** concrete at HAURATON.

Why is that? Because our **FASERFIX** drainage channels have to withstand heavy traffic, the effects of weather and chemicals.

FASERFIX concrete is a fibre-reinforced material that was previously reinforced by plastic fibres. With basalt fibres, production and recycling are much more environmentally and climate friendly. At the same time, the basalt fibre makes the **FASERFIX** concrete even more durable and safe.

Concrete is a watertight and rust-free material.

Watertight and does not rust

With suitable formulations, concrete can also be used when aggressive substances are involved. It is resistant to petrol, diesel and leaking oil and is therefore well suited for use in petrol stations or logistics areas. Concrete channels are continually durable and reliable over time, even when permanently exposed to corrosive elements such as saline environments in coastal locations.

For many decades, concrete products have been used for the drainage or storage of water, for example in the form of concrete pipes, cisterns or drainage channels. Concrete is the ideal material here: watertight, durable, strong and reliable.

FASERFIX fulfils all requirements of the following exposure classes of DIN EN 206-1:

Type of attack	Class	Environmental condition	Application example
Concrete attack by frost with and without de-icing agent	XF4	High water saturation with de-icing agent or seawater	Road surfaces treated with de-icing agents, components in the splash water area of de-icing agent-treated traffic surfaces, scraper runways of sewage treatment plants, seawater components in the water exchange zone
Concrete attack due to chemical attack of the environment	XA3	Chemically aggressive environment	Industrial waste water plants with very chemically aggressive waste water
Concrete corrosion due to alkali silica reaction	WA	Concrete that is frequently wet or wet for a long time during use and is also exposed to frequent or long-term alkali exposure from the outside (wet and alkali exposure from the outside)	Structural elements exposed to seawater, structural elements exposed to de-icing salt without additional high dynamic stress (e.g. splash water areas, driving and parking areas in multi-storey car parks), structural elements of industrial buildings and agricultural structures (e.g. slurry tanks) exposed to alkali salts
Concrete attack due to wear stress	XM3	Extreme wear and tear	Coverings of surfaces that are frequently used by tracked vehicles (barracks yard), hydraulic structures in watercourses that are exposed to bedloads (head-waters of rivers, stilling basins)

For use in corrosive seaside environments.

Concrete: perfect for contact with water,
e.g. drinking water reservoirs.

Concrete is a watertight material and is therefore used for the main surfaces in our current transport infrastructure (roads, airports, WRA (Water Resources Act) surfaces, SFH facilities ...).

Conrete is emission-free and fireproof.

Emission-free

Products made of concrete are inert, which means that they do not give off any harmful chemical substances. They are therefore particularly suitable in areas of surface drainage where rainwater is returned to the natural cycle.

Fireproof

Concrete offers effective fire protection. It cannot burn and does not melt even when exposed to high temperatures. In the event of a fire, concrete components therefore offer maximum safety and can contain or prevent the spread of fires.

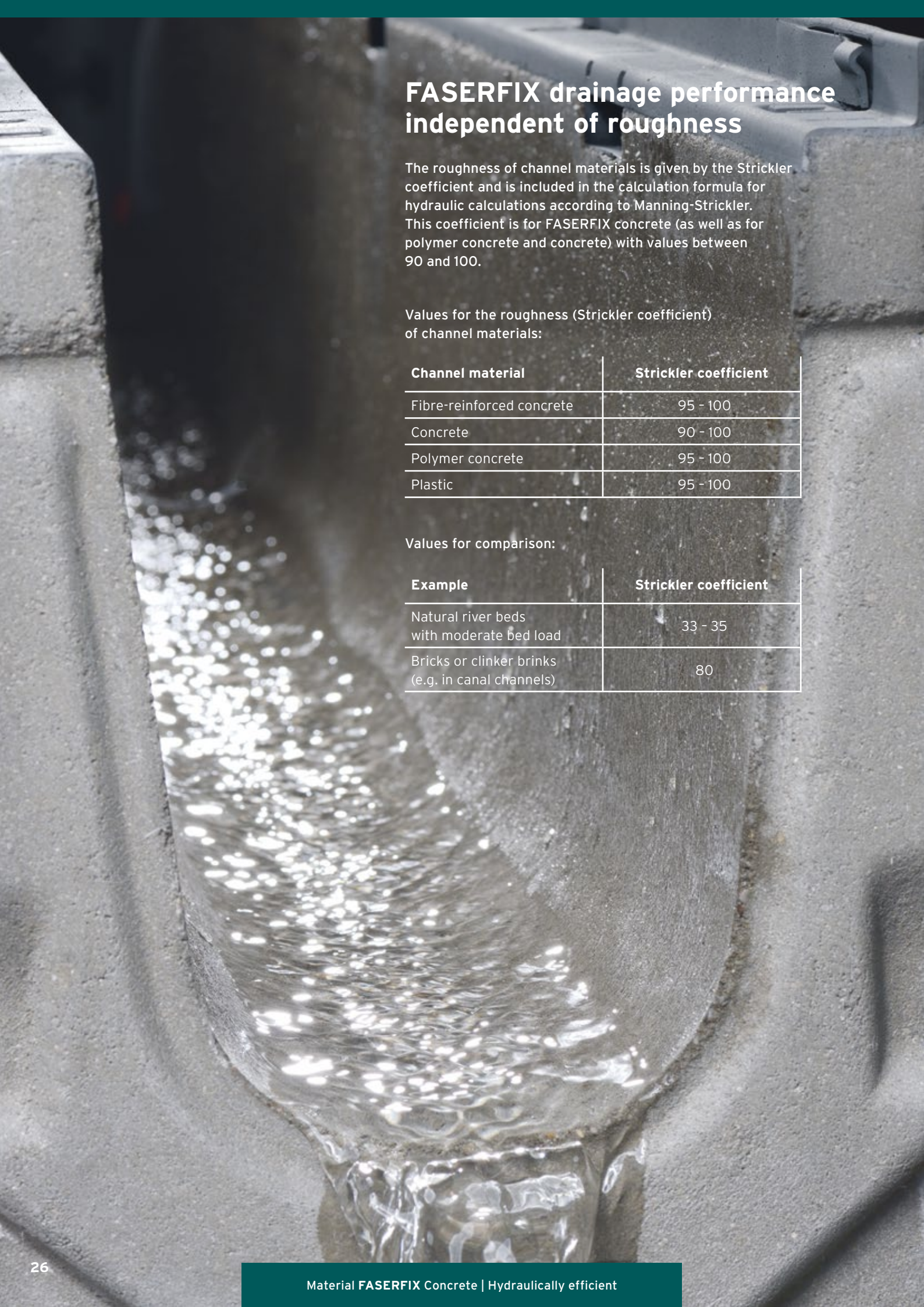
Fire protection classes according to DIN 4102:

Concrete = A1 non-flammable

Due to their classification in fire protection class A1, **FASERFIX** channels are particularly suitable for areas of application where fire protection plays a very important role, e.g. in tunnel construction.

The emission-free properties of concrete make the material particularly suitable for areas where rainwater is returned to the natural cycle.

Material **FASERFIX** Concrete | Emission-free and fireproof



FASERFIX drainage performance independent of roughness

The roughness of channel materials is given by the Strickler coefficient and is included in the calculation formula for hydraulic calculations according to Manning-Strickler. This coefficient is for FASERFIX concrete (as well as for polymer concrete and concrete) with values between 90 and 100.

Values for the roughness (Strickler coefficient) of channel materials:

Channel material	Strickler coefficient
Fibre-reinforced concrete	95 - 100
Concrete	90 - 100
Polymer concrete	95 - 100
Plastic	95 - 100

Values for comparison:

Example	Strickler coefficient
Natural river beds with moderate bed load	33 - 35
Bricks or clinker brinks (e.g. in canal channels)	80

FASERFIX concrete has a positive energy balance.

Here is a comparison with other building products.

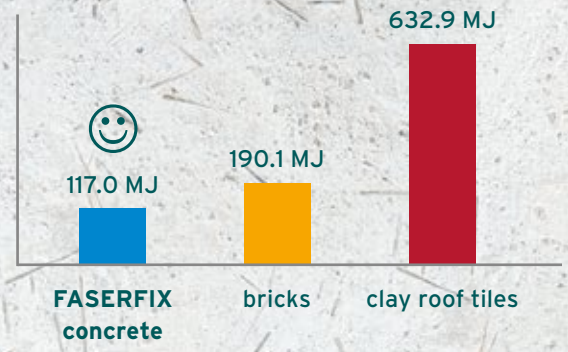
Energy demand and CO_2 emission for the production of:

FASERFIX concrete with 117 kg (corresponds to a FASERFIX KS 300)

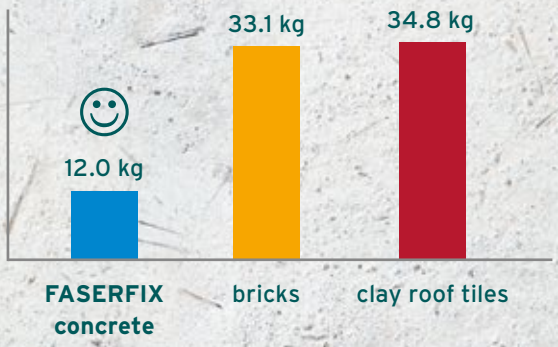
117 kg bricks

117 kg clay roof tiles

Energy requirement (Mega-Joule)



CO_2 emission (kg)



This corresponds to a quantity of:

The reduction is primarily due to the new recipe, in which less cement is used!

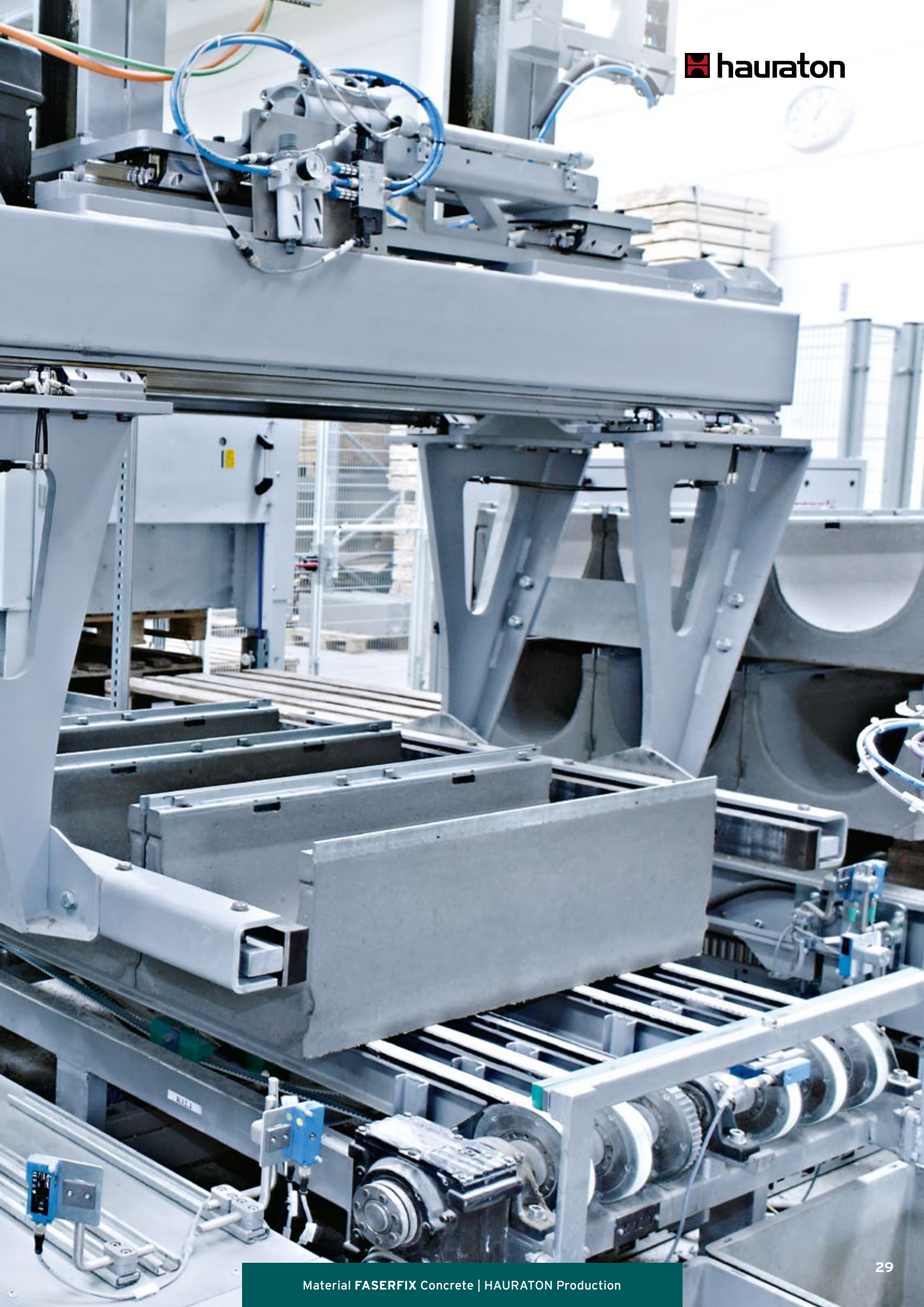
Sources:
- FASERFIX concrete: In-house calculations according to EN 15804
- Bricks: www.bau-umwelt.com
- Clay roof tiles: www.ibu-epd.com | https://epd-online.com

Production in the FASERFIX factory in Ötigheim.

Made in Germany: FASERFIX channels are manufactured in certified processes under controlled conditions at the HAURATON factory in Ötigheim.

Quality: The factory environment offers consistent conditions (temperature, humidity, etc.) and ensures a consistently high quality of the products.

FASERFIX channels not only comply with EN 1433, but also the requirements of the much stricter German DIN 19580. CE marking, external monitoring and performance declaration in accordance with the EU Construction Products (BauPVO) guarantee the highest technical standard.



Material **FASERFIX** Concrete | HAURATON Production

FASERFIX in use.

FASERFIX drainage channels are particularly durable and permanently stable. This is proven by these locations in which **FASERFIX** channels were installed more than 10 years ago. Under the highest loads in daily use, they still perform their function safely and reliably to this day.

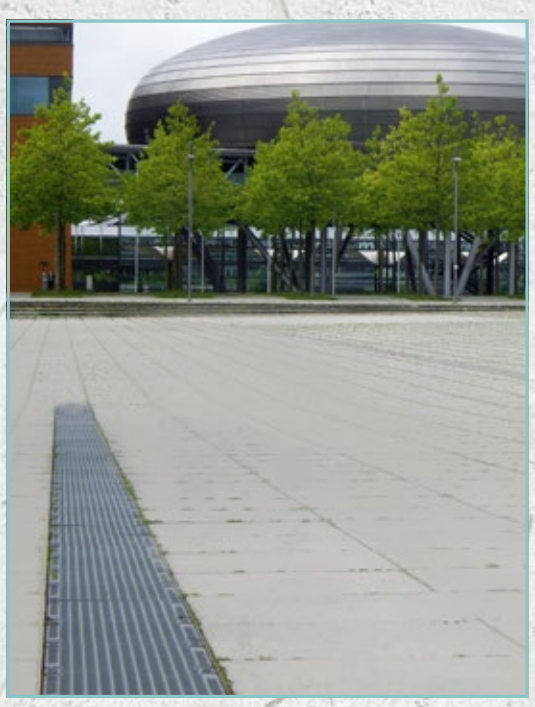
FASERFIX SUPER
Reuchlin School, Bad-Liebenzell

1998

2020

FASERFIX SUPER
EXPO 2000, Hanover

1999



2020

FASERFIX BIG
Max Bahr, Hagen

2003

2020

FASERFIX KS
Campona Shopping Centre, Budapest

2003

2020

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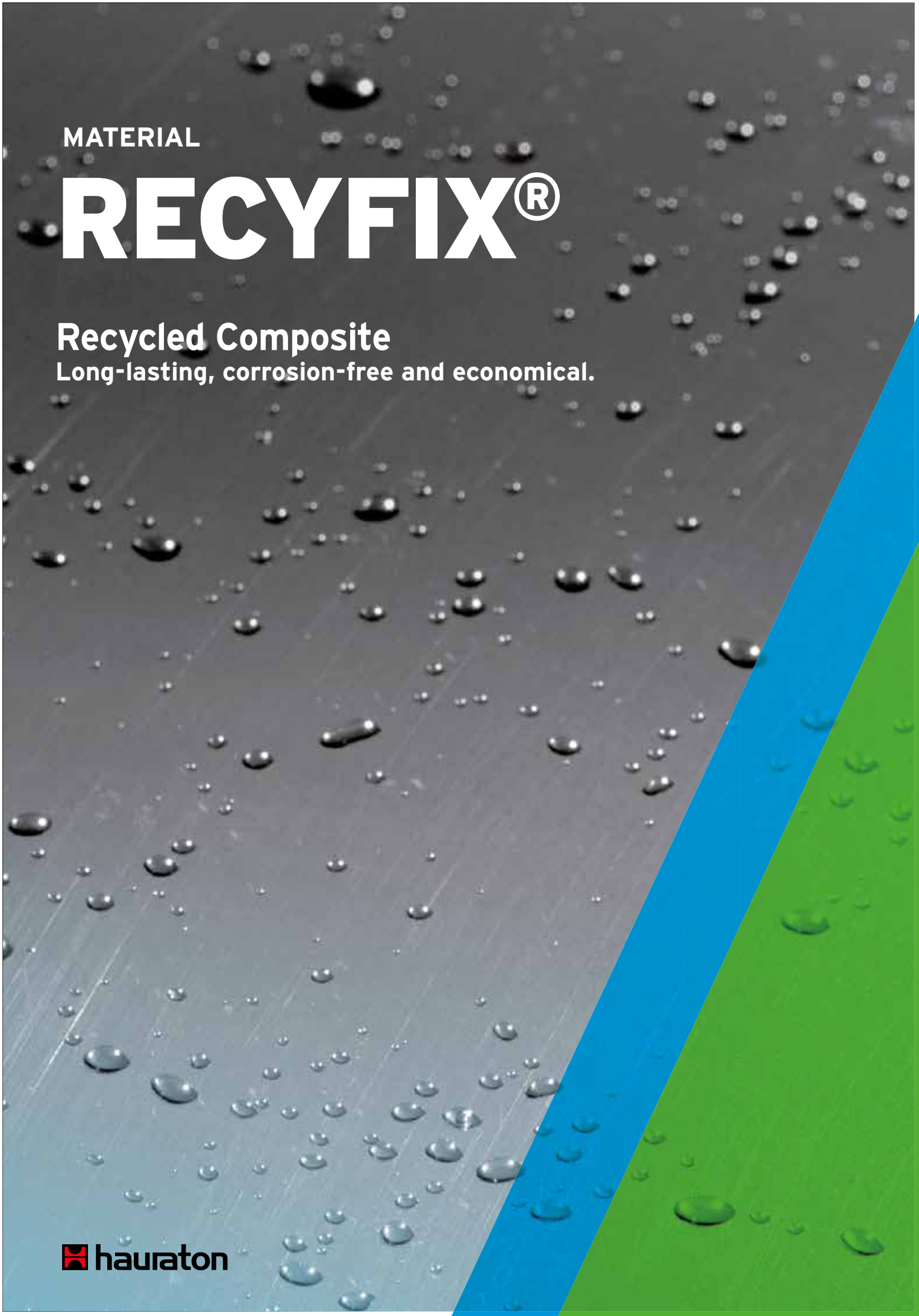


MATERIAL

RECYFIX®

Recycled Composite

Long-lasting, corrosion-free and economical.

hauraton

AT A GLANCE

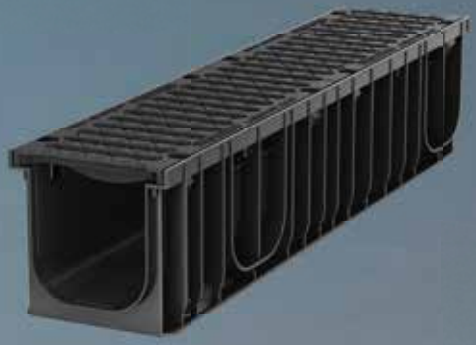
RECYFIX®
long-lasting, lightweight and corrosion-free drainage products

RECYFIX® is...	see page
... long-lasting	6
... energy-efficient	7
... recyclable	10
... stable and unbreakable	12, 14
... easy to process	15
... corrosion-free	16
... inert	19

RECYFIX® CHANNELS.

RECYFIX channels are available in different versions. Depending on where they are used in civil engineering or landscaping, the **RECYFIX**®NC, **RECYFIX**®PRO, **RECYFIX**®PLUS and **RECYFIX**®STANDARD variants are available.

RECYFIX®NC
Black polypropylene angle housing, inlaid grating with 8 bolt connections, up to class E 600



RECYFIX®PRO
Black polypropylene angle housing, inlaid grating with 2 bolt connections, up to class C 250

RECYFIX®PLUS
Galvanised or stainless steel angle housing, overlay grating with 2 bolt connections, up to class C 250

RECYFIX®STANDARD
overlay grating with 2 bolt connections, up to class C 250

THE "PLASTIC ERA".

The modern world would be unthinkable without plastics, which are used in almost all walks of life. Be it the consumer industry or the investment goods industry, plastics are indispensable for the quality, comfort and safety of our modern lifestyle. They are now so good, lightweight and stable that they are even used in the manufacture of aircraft and motor vehicles. It is often said that we now live in a „plastic era".

THE HISTORY OF PLASTIC.

The first plastic was manufactured in the mid-19th century. It took a major leap about 120 years later during the economic miracle period when it was used in the industrial manufacture of various goods. This modern material has been on the increase since that time. More plastic than steel was already being produced worldwide by the 1980's in terms of volume.

MODERN MATERIAL WITH TRADITION ...

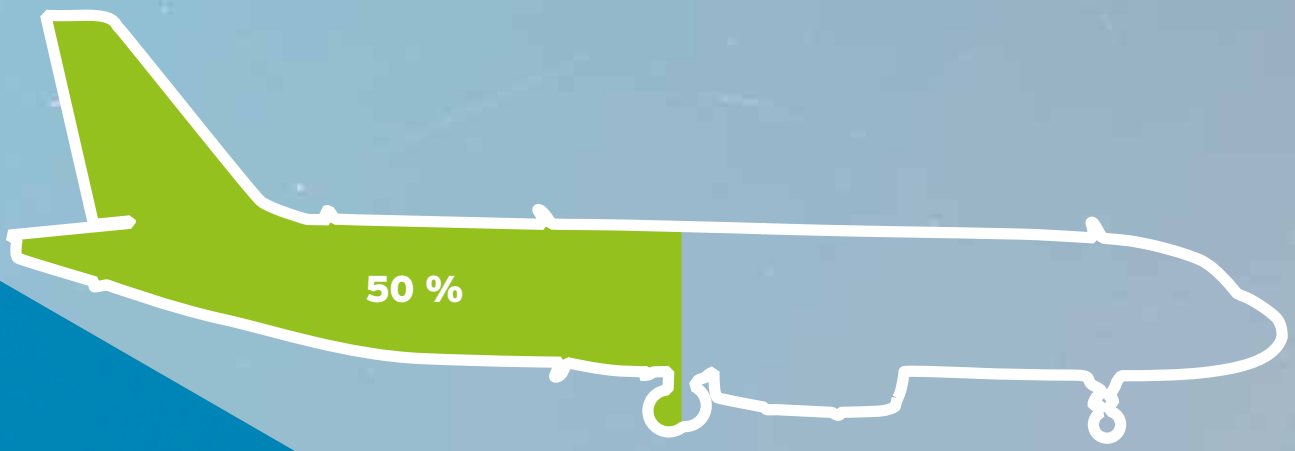
hauraton

ECOLOGY AND SUSTAINABILITY.

Fulfilling the needs of tomorrow is the basis of the concept of sustainable development. Plastics make a contribution towards improving peoples' everyday lives. They make it possible to produce lightweight and long-lasting products that can be transported and processed at low cost.

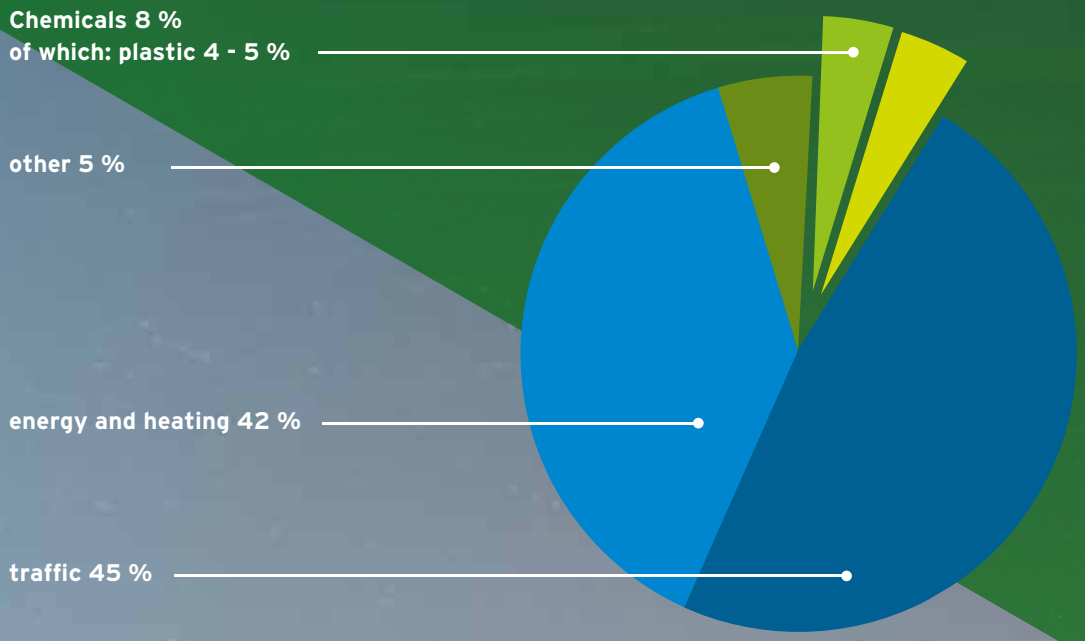
e.g. plastic bottles have now replaced the glass bottle.

About 15 % of a car is currently made from plastic, with an increasing tendency. The proportion of plastic in a modern aircraft has even reached about 50 % - not just in the interior but also in the fuselage and the wings. This results in a tremendous reduction in fuel consumption.



Plastic requires much less oil than you think.

Plastics are mainly manufactured from mineral oil, but only about 4 % of global oil production is used for this purpose. This is extremely efficient because the quantity of energy that is saved due to easier processing and use of the plastic products that are produced is 7 times greater than the amount of energy in the oil.



> **only 4 - 5 % of global oil production goes into plastic production.**
> **after the product has been used, the energy content of the plastic is still available.**

Source: http://www.christiane-brunner.com/wp-content/uploads/2010/09/SCHRATT_PLASTICSEUROPE.pdf

Compared to other materials, significantly less oil is required to manufacture plastic.

The following is required to manufacture	Required quantity of crude oil
1 litre of plastic	2 litres of oil
1 litre of steel	6 litres of oil
1 litre of copper	12 litres of oil
1 litre of aluminium	17 litres of oil

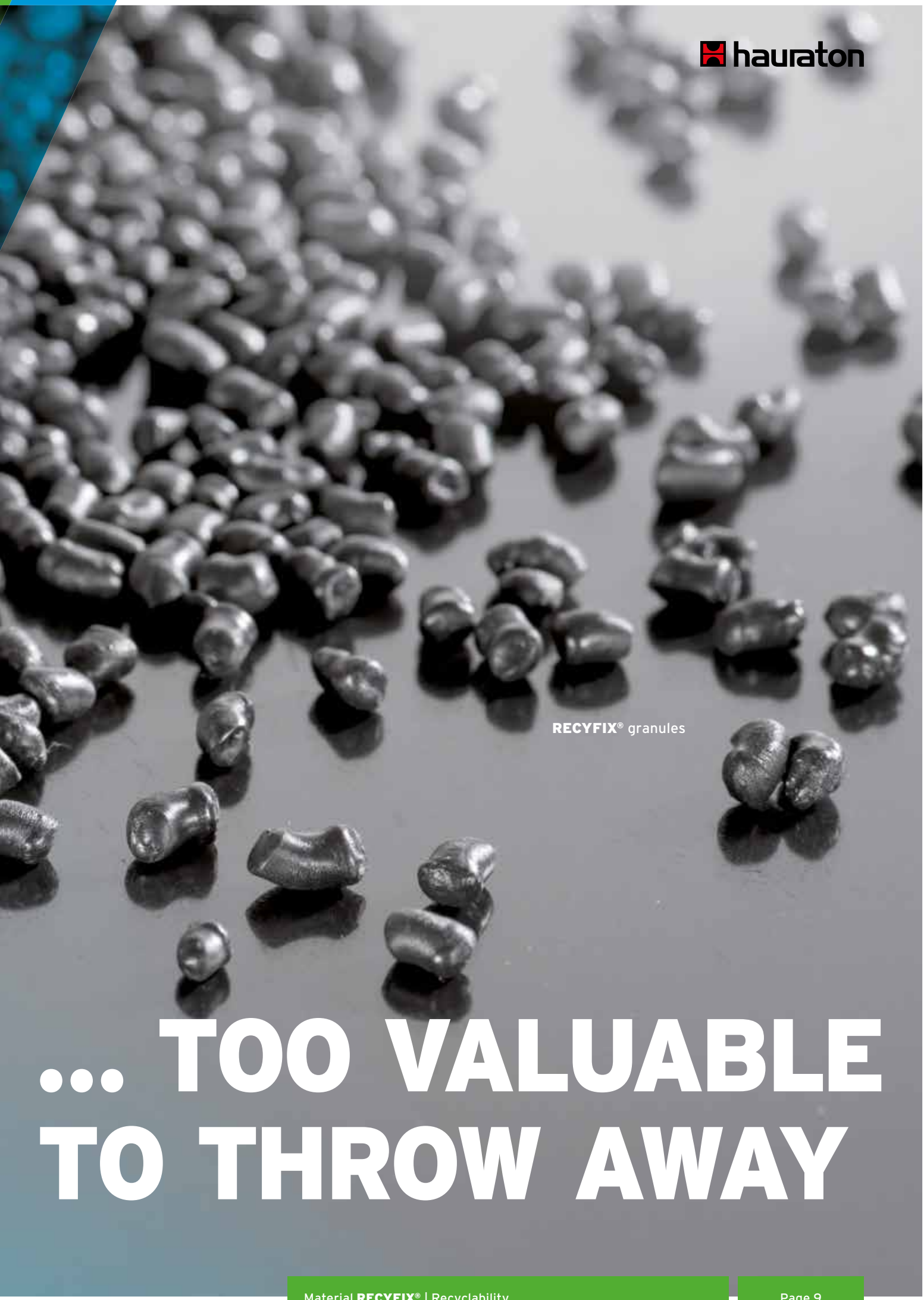
RECYFIX® IS A HIGH-QUALITY RECYCLED COMPOSITE.

Even at the end of its service life plastic, in general, has a lot to offer and is much too valuable to be thrown away. Recycled plastic can be re-used with almost zero loss of quality and energy. Plastic parts are regranulated, brought to the quality level that is required for recycling by adding a small proportion of new material if necessary, and taken to a new production process. This results in an extremely high-quality material which is the basis for **RECYFIX** channels.

Even if the re-use of materials is no longer meaningful financially, the material does not need to be disposed of. The energy that it contains can be used for generating electricity and heat.

The recycled materials for **RECYFIX** are made by modern recycling companies. They are based on high-quality industrial plastics from the automotive industry or mechanical engineering, for example. The proportion of recycling material can vary depending on the quality that is required; all-new material can be used if necessary.

E.g. the housings of outside rearview mirrors



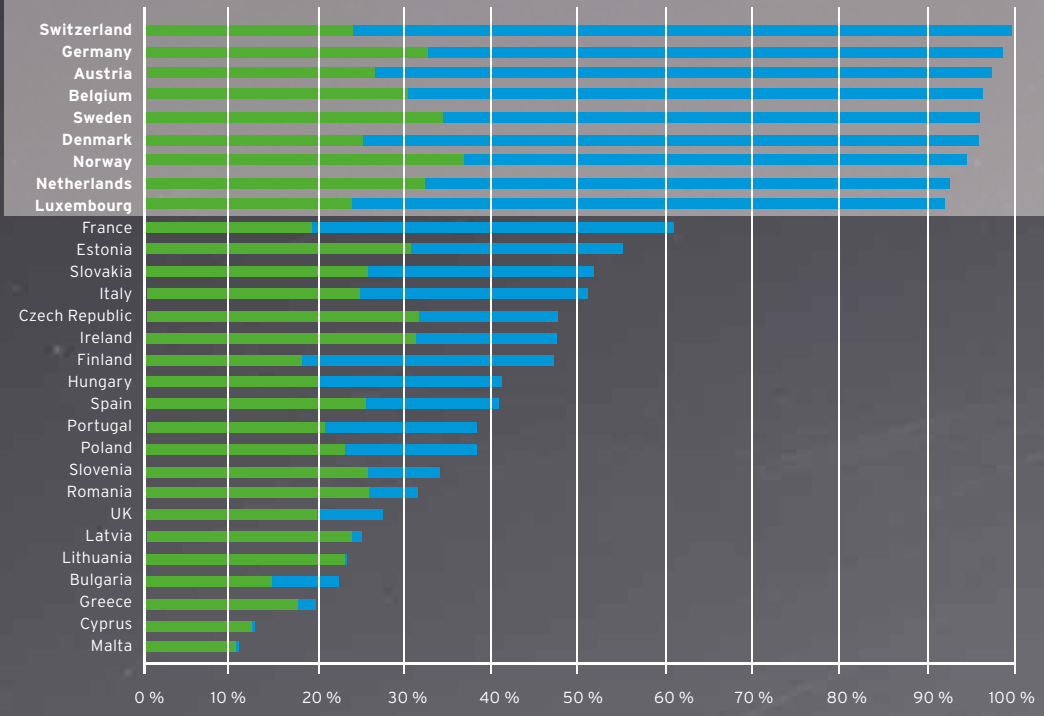
RECYFIX® granules

... TOO VALUABLE TO THROW AWAY

RECYCLING QUOTA IN GERMANY.

Germany is one of the top countries in Europe for recycling. Of the waste that was generated in 2011, only 1 % was dumped (mainly packaging waste); 99 % was used for recycling or producing energy. High-quality plastics from industrial production are considered to be a valuable raw material and 100 % of that is recycled.

The dumping of plastic waste is forbidden in these countries. The material is recycled or used to produce energy.



Total Recovery Rate by Country 2011

(Referred to Post-Consumer Plastic Waste)
Source: Consultic

For this reason, thermoplasts can be processed into new products.

Thermoplast (= basic product for **RECYFIX**): The thermoplasts are made from long molecule chains. They are held together by intermolecular force. This is like joining together, entangling and interlocking. There is therefore no molecular bond between the individual strands. This means that the material can be molten again without molecules having to be destroyed.

Here you can see a film on this topic.

Recycling quota of plastic in Germany in 2011.

Recycling code.

In order to simplify the recycling of materials, all materials are now equipped with a recycling code. Polypropylene has its own recycling code:

DRAINAGE SYSTEMS THAT LAST

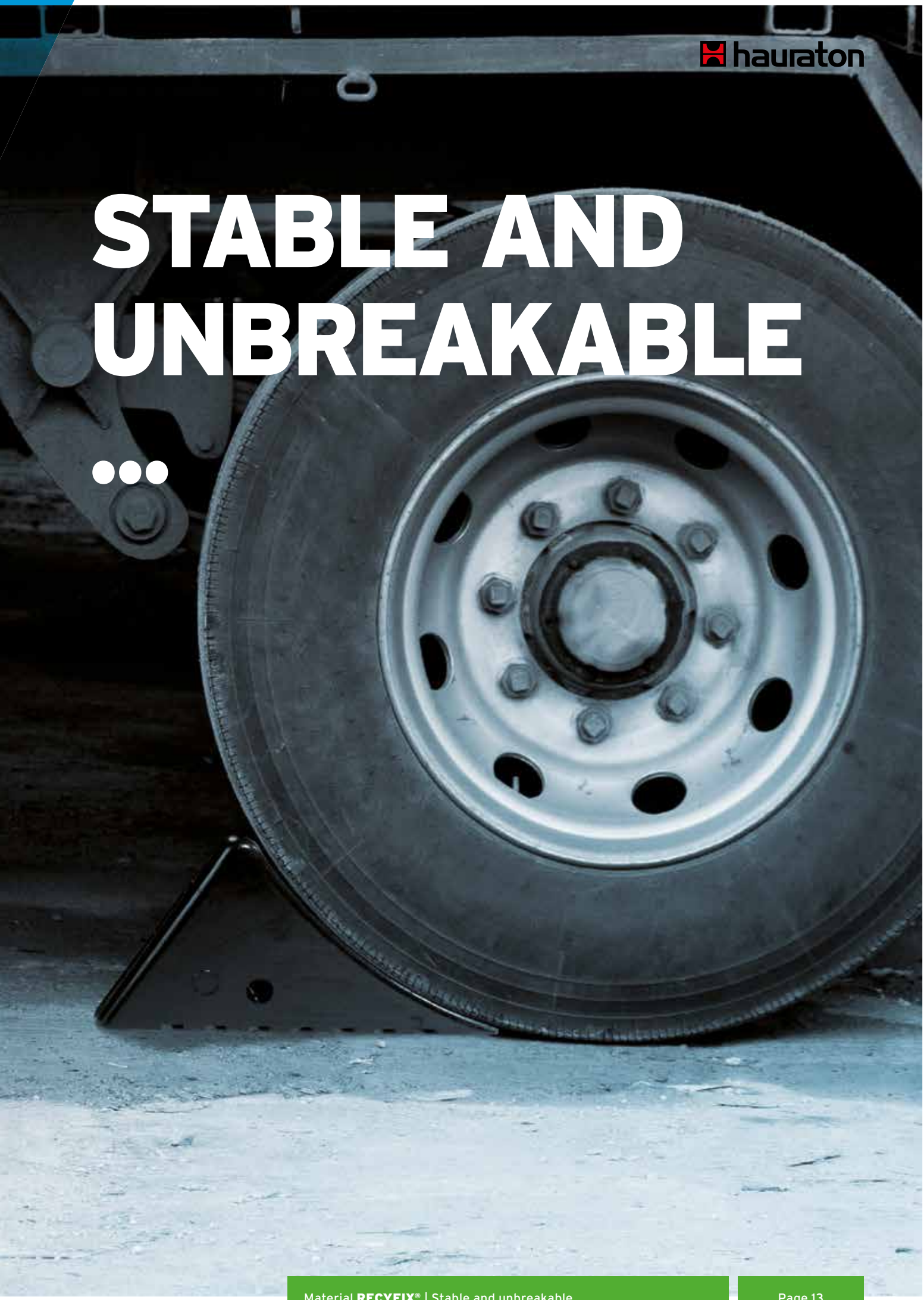
Elasticity describes a material's ability to reversibly change its geometry as a result of external force.

If force acts upon a workpiece, the distances between the material particles are increased or reduced slightly. The mechanical energy that is applied is stored and the workpiece changes its outer shape. When the force is removed again, the particles return to their initial positions and the energy is released again. The workpiece reverts to its original external shape. If the elasticity limit is exceeded, the workpiece is permanently deformed or breaks.

Why the definition from physics? Drainage channels are subjected to large amounts of dynamic force. This starts during installation when permeable paving surfaces are compacted in along the channel. Or during everyday use: In this case, the channels and gratings must be able to withstand the weight of pedestrians and vehicles, not to mention high temperature differences between summer and winter. It is therefore an advantageous material that is flexible enough to put up with this stress without causing damage to the channel. **RECYFIX** has exactly these properties. It is unbreakable, long-lasting and provides permanently reliable surface drainage.

Elasticity is important when permeable paving surfaces are being compacted in along the **RECYFIX** channel.

Here you can see a film on this topic.



STABLE AND UNBREAKABLE

...

UNBREAKABLE.

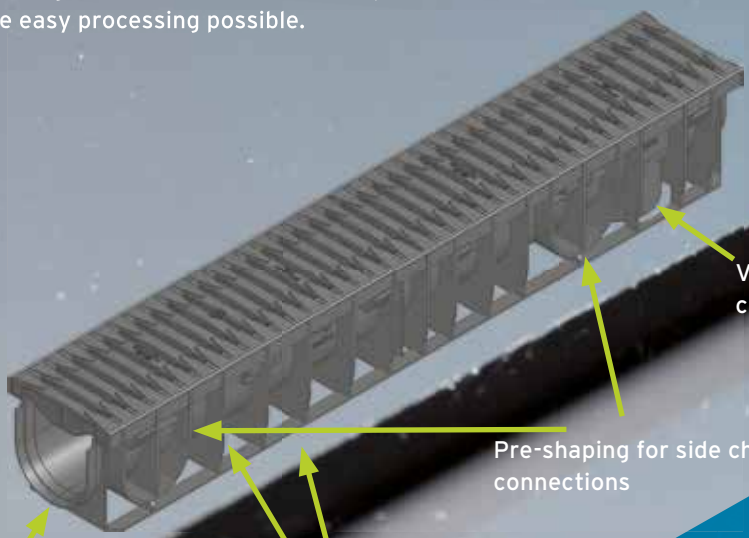
RECYFIX channels are extremely tough. They can be packed, transported and transferred with ease. This avoids problems on the building site.

These pictures show that RECYFIX withstands the impact of a hurled steel ball. Here it proves its characteristics of flexibility, toughness and unbreakability.

Here you can see a film on this topic.

New design options and functional integration

Products can be designed in an extremely versatile and flexible way using composites. The material makes it possible to have designs that are much more complex than with mineral materials. RECYFIX channels have many details that make easy processing possible.



MONEY-SAVING INSTALLATION, EASY TO PROCESS.

Light weight.

Its light weight will keep your back in good health: A channel with a nominal width of 100 mm weighs just 4 kg.

Easy processing.

The recycled composite is easy to process. Fitting pieces, pre-cuts and openings can be made using simple tools such a saw or core drill bit with little effort.

Combination items.

RECYFIX channels are delivered to site pre-assembled with an inlaid grating, and can be directly removed from the palette and laid by one person.

CORROSION-FREE AND EXTREMELY DURABLE DRAINAGE SYSTEMS.

RECYFIX is corrosion-free and is characterised by its outstanding strength. The material is so dense that is does not absorb water. It is resistant to frost and salt gritting material. This will guarantee a permanently aesthetic appearance and reliable operation of the drainage system for many years.

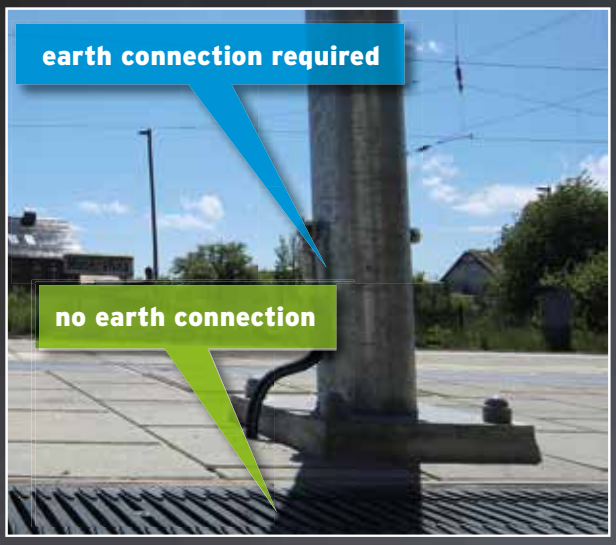
CORROSION-FREE …

RESISTANT TO FROST, SALT GRITTING MATERIAL AND AGGRESSIVE MATTER.

RECYFIX is permanently resistant to UV light and complies with the requirements of EN 1433. The material is given this resistance by adding industrial carbon black as a UV stabiliser. The structure of the material and the consistent appearance are unaffected.

TOP-QUALITY INSULATOR.

Plastic, in general, is non-conductive and is used as an insulator. For safety reasons, metal objects in the vicinity of power lines have to be earthed, e.g. on railway platforms. Products made from plastic are non-conductive and the use thereof avoids expensive earthing work.



INERT AND FREE OF SOLUBLE SUBSTANCES.

Like polyolefines, polypropylene is inert. It is free of soluble substances and is suitable for products used for supplying, diverting and storing water. Polypropylene is even used with foodstuffs and products with extremely high hygiene requirements.

DEVELOPMENT AND PRODUCTION.

RECYFIX channels are a HAURATON invention. Developed in Rastatt, more than 15 million metres of channel have been draining surfaces and buildings all over the world since the introduction of the **RECYFIX** range in 1995 - reliably and safely.

RECYFIX channels are certified to DIN EN 1433, and also in accordance with the more stringent German standard DIN V 19580. Products are CE Marked which represents full standards compliance and quality assurance.

RECYFIX®
Production film

RECYFIX® - TESTED BY LIFE.

RECYFIX channels have been tested within the toughest laboratory in the world: practical use on site. They have all the necessary properties for use in the harshest conditions of everyday life - and have been proving this in projects all over the world since 1995.

RECYFIX®PLUS
Basilica in Budapest

2003

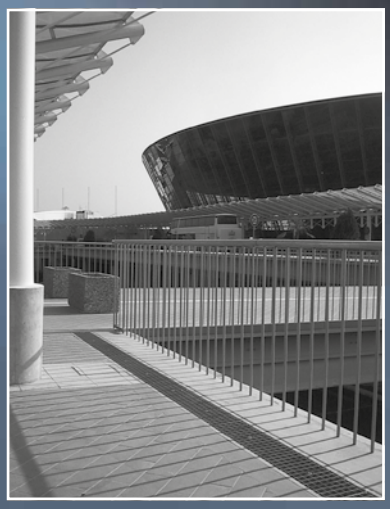
2014

RECYFIX®STANDARD
Logistics centre, Kamen

2001

2014

RECYFIX®PLUS
Nice airport



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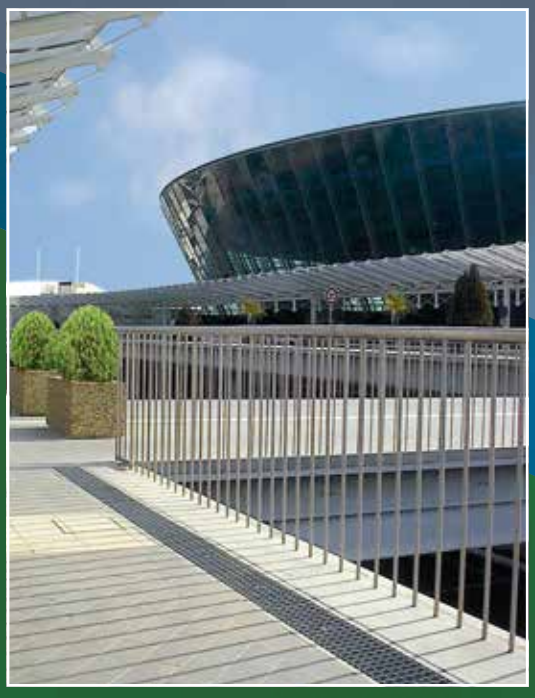

2014

RECYFIX®STANDARD
„Mineralbäder" tram stop,
Stuttgart

2002

2014

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