





Welcome to HAURATON

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

RECYFIX®NC	4
RECYFIX®PRO	14
RECYFIX®PRO 100	26
RECYFIX®PRO 150	36
RECYFIX®PRO 200	41
RECYFIX®PRO 300	46
RECYFIX®MONOTEC	49
RECYFIX®MONOTEC 100	61
RECYFIX®MONOTEC 200	65
RECYFIX®HICAP®	69

RECYFIX[®]NC

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

**New nominal sizes
300 and 400 mm**



**Building material stockage,
SFS unimarket, Switzerland**



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.

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.

2 Application areas

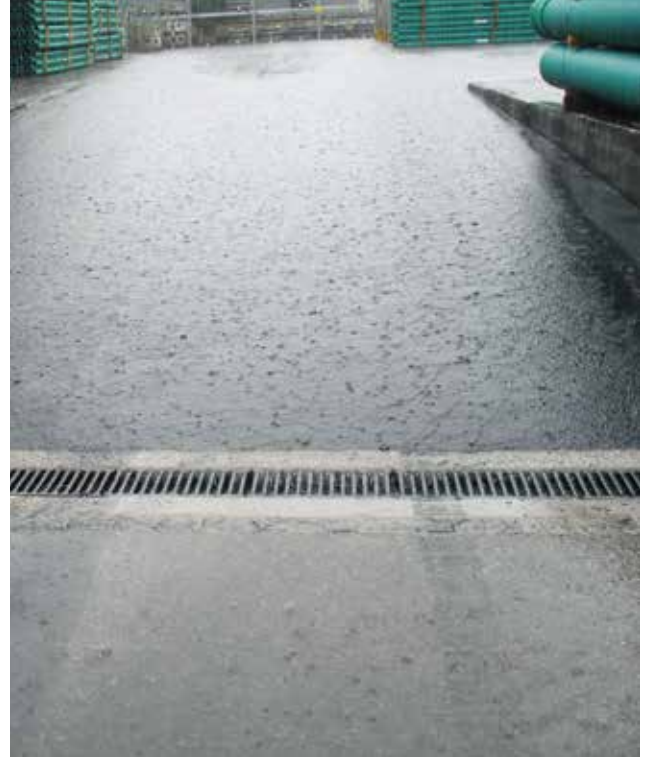
- traffic areas for industry
- loading and unloading zones
- car parks
- pedestrian areas
- public areas
- petrol stations



Industrial yards



Loading and unloading zones



Access ways



Logistic areas



Car parks

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

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)





FASERFIX® SUPER
FASERFIX® KS
RECYFIX® PLUS X
RECYFIX® NC
RECYFIX® MONOTEC
RECYFIX® HICAP®
FASERFIX® POINT

Your benefits with **RECYFIX®**NC channels



High stability

- stable, durable ductile iron grating
- RECYFIX®NC 100, 200, 300: load class E 600
- RECYFIX®NC 400: load class D 400
- 8-fold bolted

= **Security & Durability**



Standards and approvals

- certified to EN 1433
- CE-marking

= **Security**



Low weight ensures easy handling on site

- much easier handling on site compared to channels made of polymer concrete
- very easy handling and installation
- maximum stability with minimum weight

= **Cost saving**

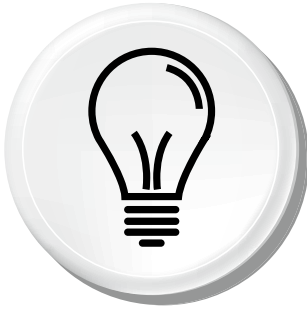


Integrated angle housing

- angle housing acc. EN 1433
- angle housing is molded as an integral part of the channel body (made of PP)
- ridges to stop any lateral movement

= **Security**

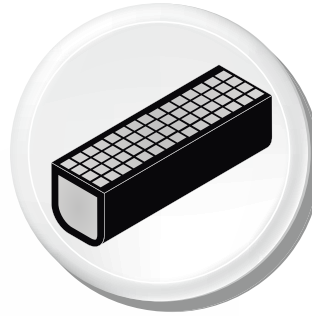




Continuous innovation

- 20 years of experience
- unique material: 100 % recycled material

= Security



Prefabricated ready to install

- channel and grating = one part
- no single parts
- easy handling in stock and on site
- cost-effective transportation

= More earnings



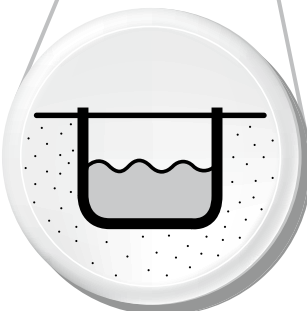
Exclusive :
The first channel made of PP with nominal width 400



High-grade material

- RECYFIX® - stable and nearly unbreakable
- flexible and particularly resistant material
- withstands high traffic loads and temperature differences in daily use

= Security & Durability



High hydraulic capacity

- drainage cross-section = 1640 cm²
- more area per channel metre can be drained

= Security

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

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:



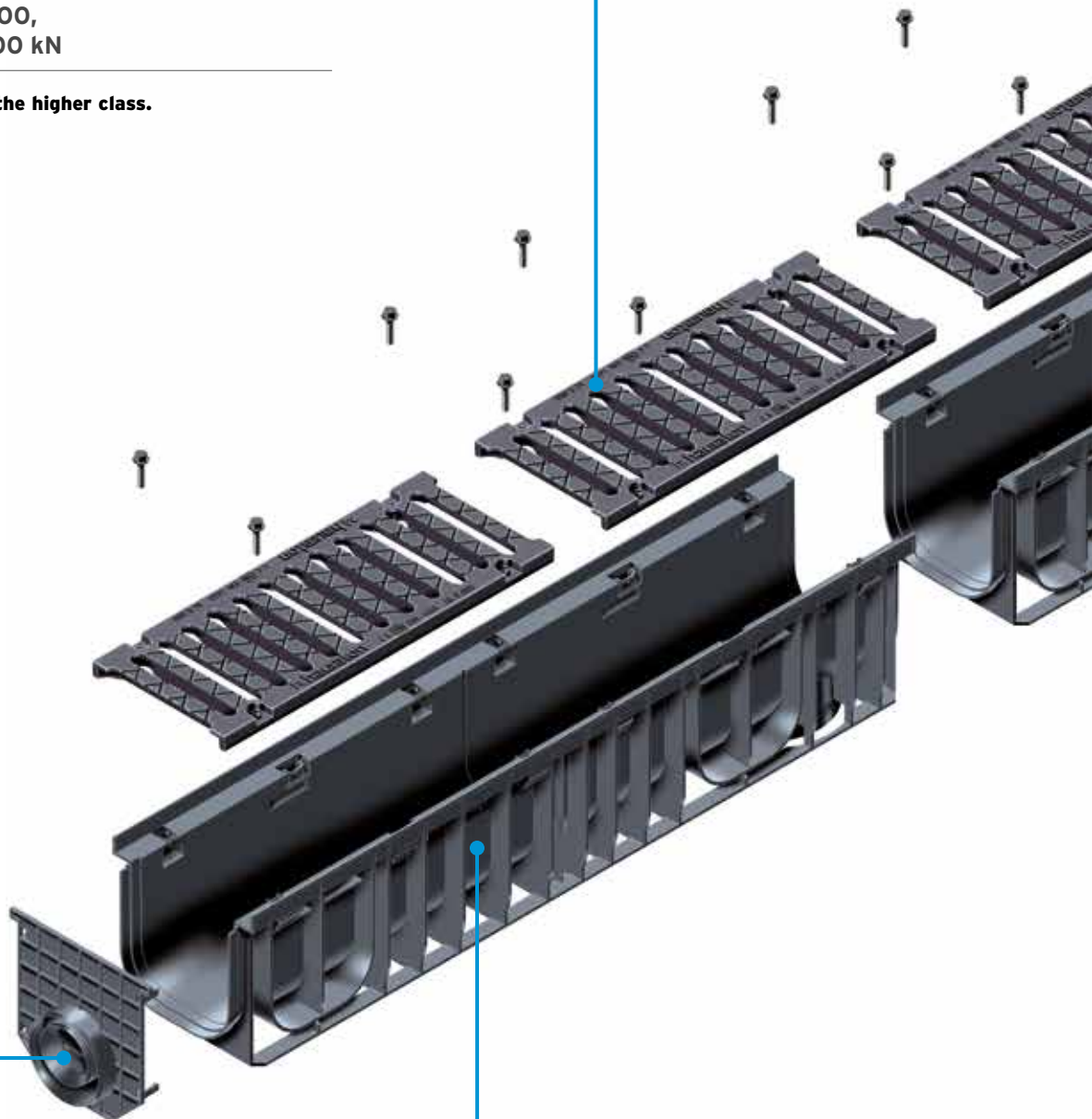
Category D 400,
Load class 400 kN



Category E 600,
Load class 600 kN

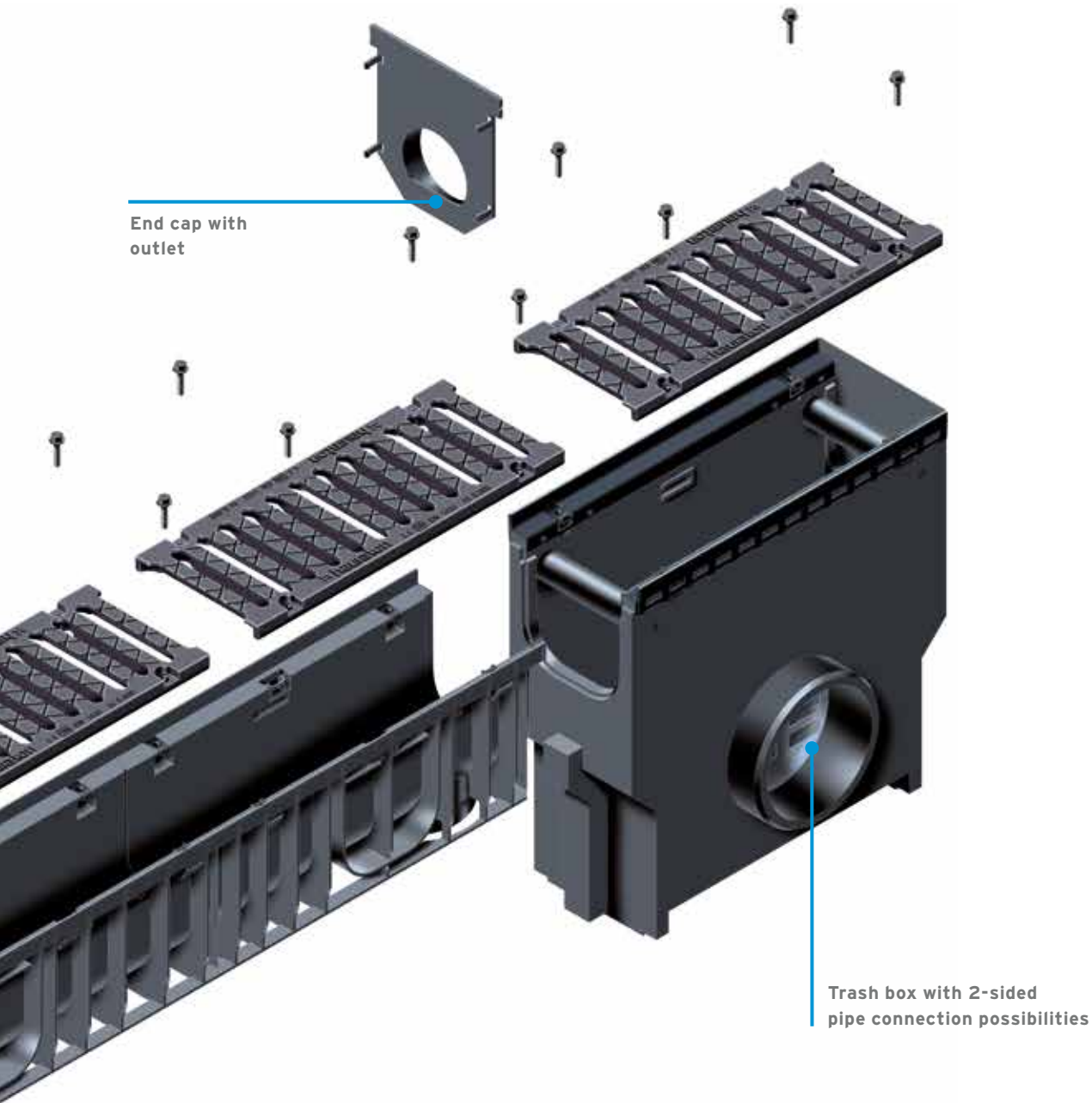
If in doubt, always select the higher class.

Stable ductile iron grating
made of durable spheroidal
ductile iron



End cap without
outlet

Channels made of PP with integrated
angle housing, according to DIN V 19580/
EN 1433, with groove and tongue
connection for exact installation



End cap with outlet

Trash box with 2-sided pipe connection possibilities

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)

- FASERFIX®SUPER
- FASERFIX®KS
- RECYFIX®PLUS X
- RECYFIX®NC
- RECYFIX®MONOTEC
- RECYFIX®HICAP®
- FASERFIX®POINT

RECYFIX® PRO

Corrosion-free drainage channels for private and public areas.





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 guarantee 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.

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 optimized FIBRETEC slotted grating

2 Application areas

- private and public areas
- squares and parks
- railway platforms
- driveways and parking lots
- reduced trafficked areas



100% corrosion-free

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

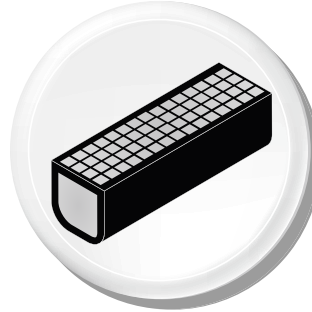


Residential complex in Munich, Germany

RECYFIX® PRO
RECYFIX® PLUS
RECYFIX® STANDARD
DACHFIX®
Slotted Channel
FASERFIX® STANDARD
RECYFIX®-POINT FASERFIX®-POINT
RECYFIX® GREEN
LINEFIX®

The benefits of **RECYFIX**[®] PRO channels

100% corrosion-free



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**



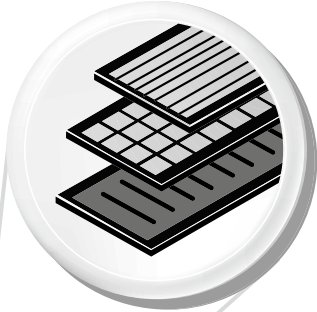
angle housing

- PP-angle housing acc. DIN 19580
 - ridges to stop any lateral movement
 - inlaying gratings
- = security**



low weight ensures easy handling on site

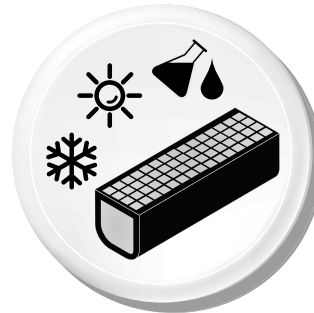
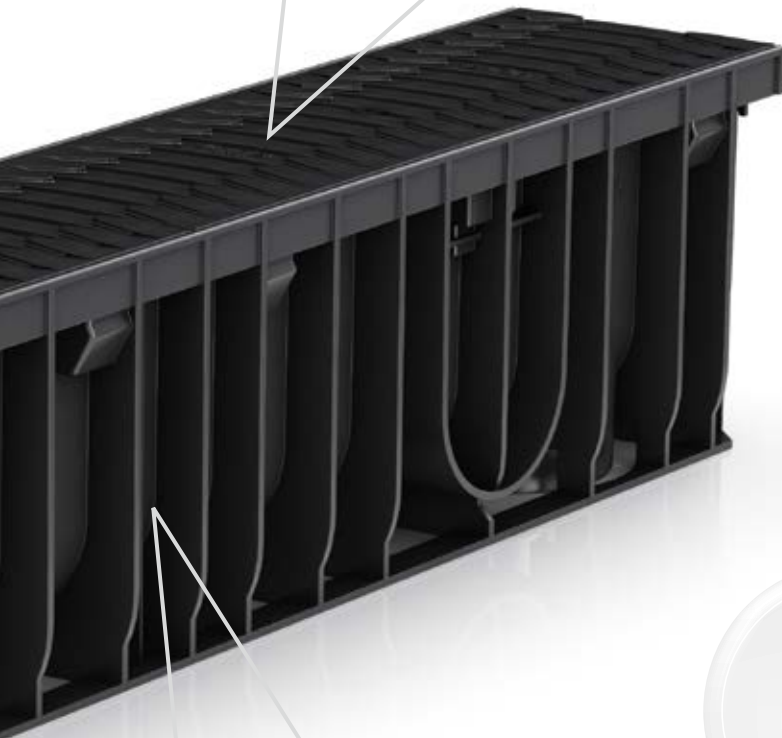
- much lighter than channels made of polymere concrete
 - easy transport and installation
- = cost savings**



corrosion-free gratings

- high-grade recycled composite
- FIBRETEC slotted grating: anti-slippery surface, hydraulically optimized with elegant inlet slots

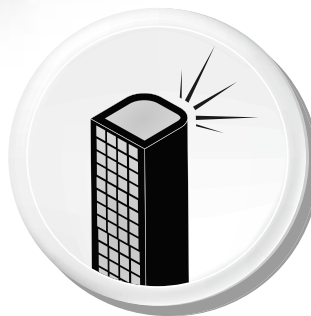
= flexibility / security



high resistance

- high resistance against frost, de-icing salt and UV rays
- withstands great temperature differences

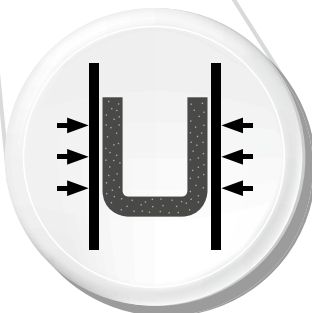
= durability



award-winning design

- FIBRETEC Slotted gratings honoured with Focus Open Design Award
- nomination for German design prize

= high quality work



high-grade material

- RECYFIX - stable and unbreakable
- elastic and especially robust material
- withstands high loads and temperature differences in daily use

= security

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®-POINT
FASERFIX®-POINT

RECYFIX®
GREEN

LINEFIX®

RECYFIX®PRO

Corrosion-free drainage channels for private and public areas.

The large areas of the Westfalenpark grounds are drained with **RECYFIX®PRO** and other HAURATON channels.

RECYFIX®PRO

Drainage system for one of Europe's largest urban parks. RECYFIX PRO offers security and reduces costs.

The Westfalenpark is the green heart of the Westphalian city of Dortmund and, with its 70 hectares, it is one of the largest inner city parks in Europe. It is a popular destination for leisure and recreation in North Rhine-Westphalia and, in addition to numerous leisure and play facilities, features extensive water surfaces and a stage on the lake for cultural events and garden shows. The most notable building is the Florian tower - a 220 metre-high television and viewing tower, which is considered Dortmund's best-known building.

Benefits for Dortmund municipality:

- Safety
 - load class C 250 for in-park traffic
 - PA grating without sharp edges and burrs suitable for public areas
 - slot width suitable for pedestrians
- Cost reduction
 - corrosion-free = maintenance-free
 - simple to service
 - long service life and sustainable
 - attractive, durable design



Westfalenpark in Dortmund, Germany

- Benefits for the landscape architect:
 - Reliable in design and material
 - durable and reliable drainage system
 - complies with all standards
 - innovative and award-winning
- Benefits for the installer:
 - Reduced installation cost and easy installation
 - low weight
 - simple installation, easy to cut (cutting to length, mitre cuts)
 - easy transport to site



RECYFIX® PRO
RECYFIX® PLUS
RECYFIX® STANDARD
DACHFIX®
Slotted Channel
FASERFIX® STANDARD
RECYFIX® POINT FASERFIX® POINT
RECYFIX® GREEN
LINEFIX®

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

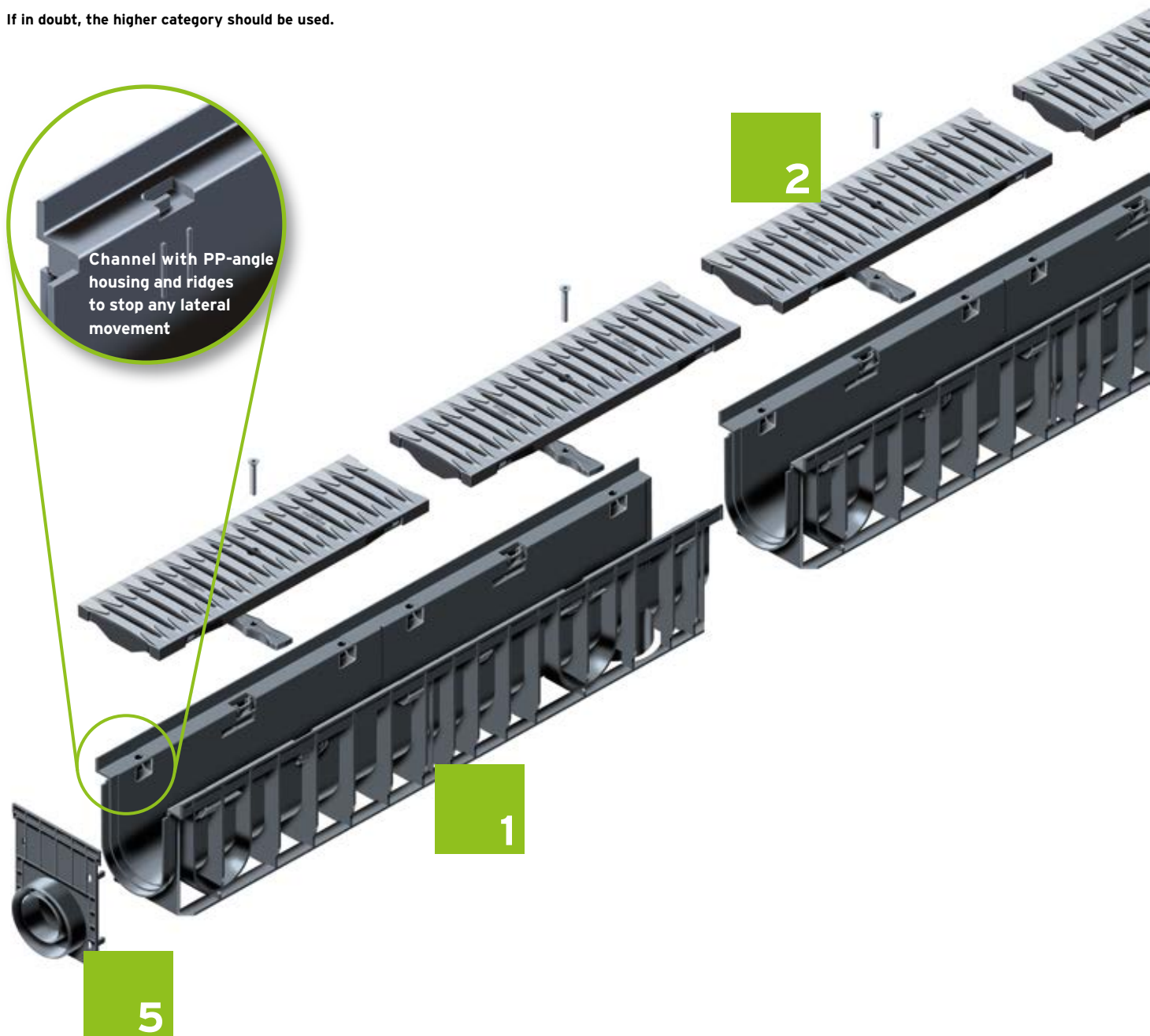


Category C 250, Load class 250 kN



Category D 400, Load class 400 kN

If in doubt, the higher category should be used.





1

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

2

■ various grating options, for example FIBRETEC slotted grating

3

■ Trash box with pipe connection possibility

4

■ End caps with outlet

4

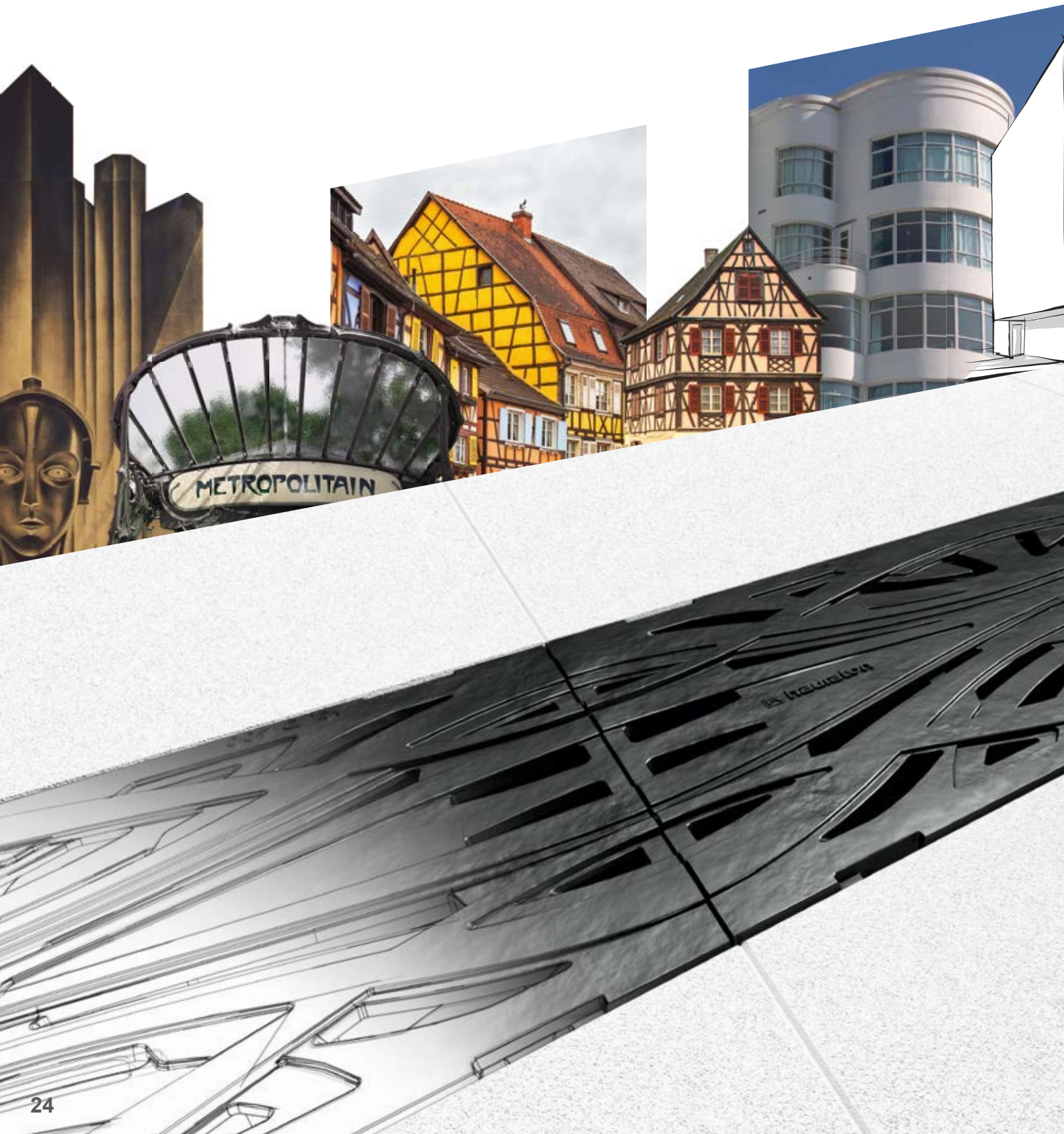
■ End caps without outlet

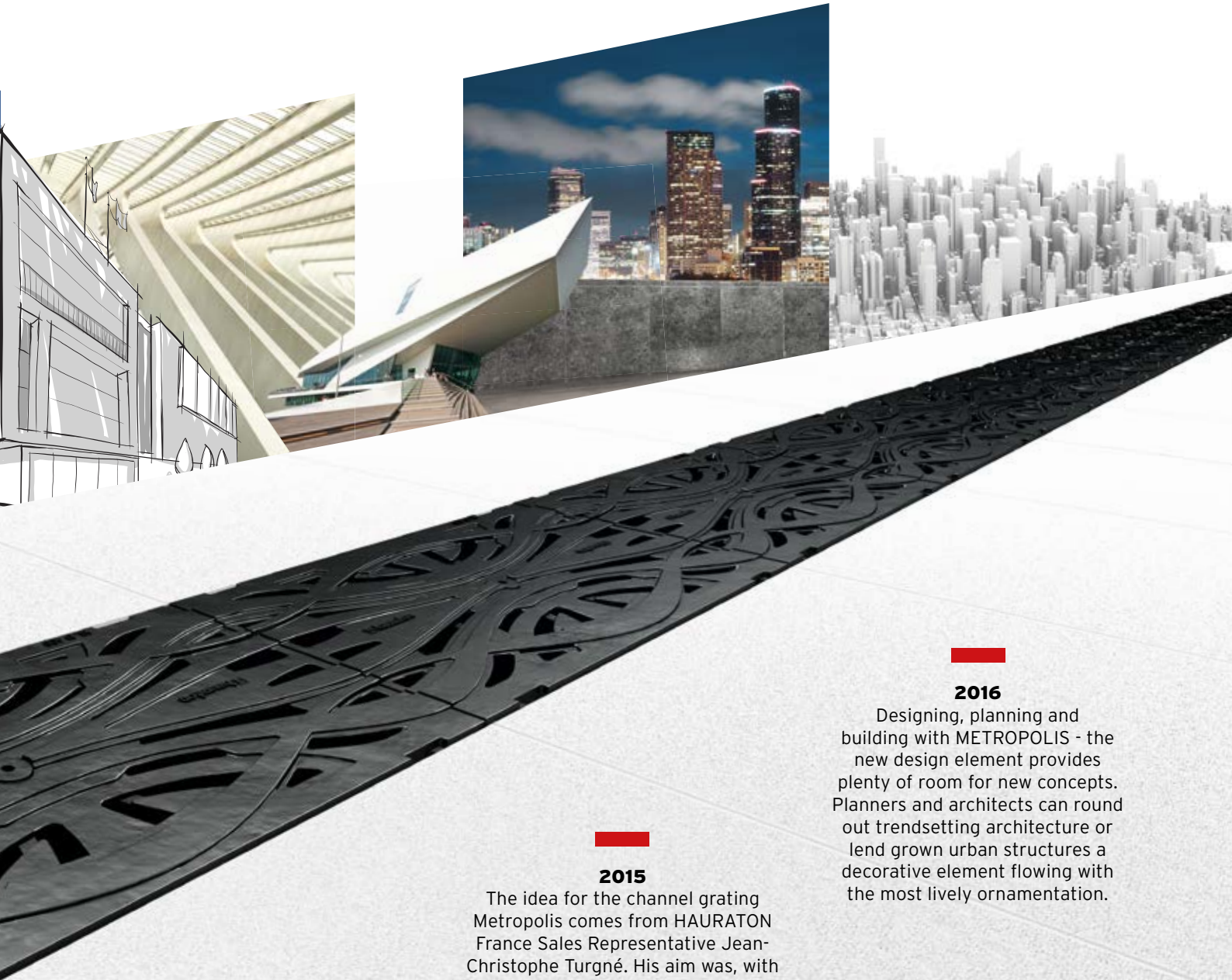


RECYFIX® PRO
RECYFIX® PLUS
RECYFIX® STANDARD
DACHFIX®
Slotted Channel
FASERFIX® STANDARD
RECYFIX®-POINT FASERFIX®-POINT
RECYFIX® GREEN
LINEFIX®

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

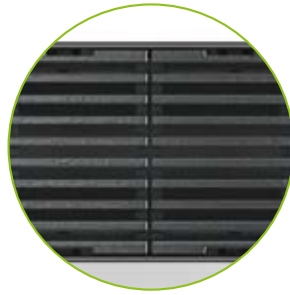
The idea for the channel grating Metropolis comes from HAURATON France Sales Representative Jean-Christophe Turgné. His aim was, with a functional component such as the drainage channel, to set standards with respect to aesthetics and to impart specific construction projects with futuristic, decorative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

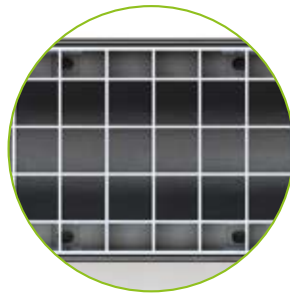
Grating options

RECYFIX® PRO 100



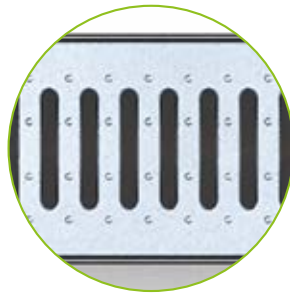
Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



Mesh gratings, galvanised

Mesh width: 30 x 30 mm



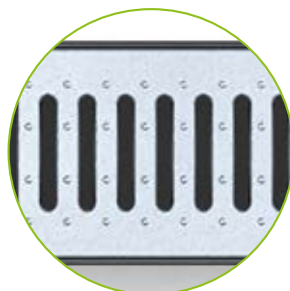
Slotted gratings, galvanised

Bar distance: 80 x 10 mm



Slotted gratings, stainless steel

Bar distance: 80 x 10 mm



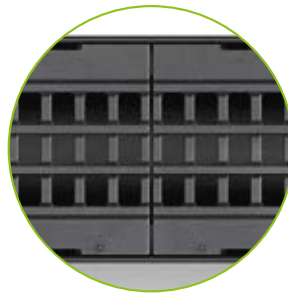
Reinforced slotted gratings, galvanised

Bar distance: 80 x 10 mm



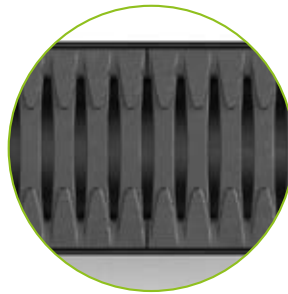
Reinforced slotted gratings, stainless steel

Bar distance: 80 x 10 mm



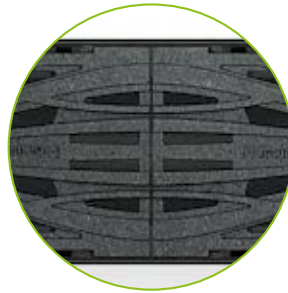
GUGI-Mesh gratings, composite material

Mesh width: 15 x 25 mm



FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm



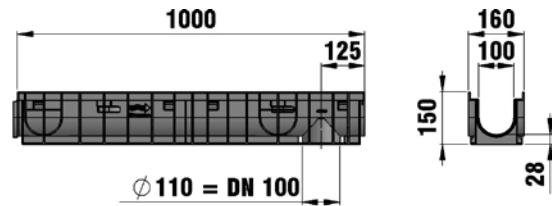
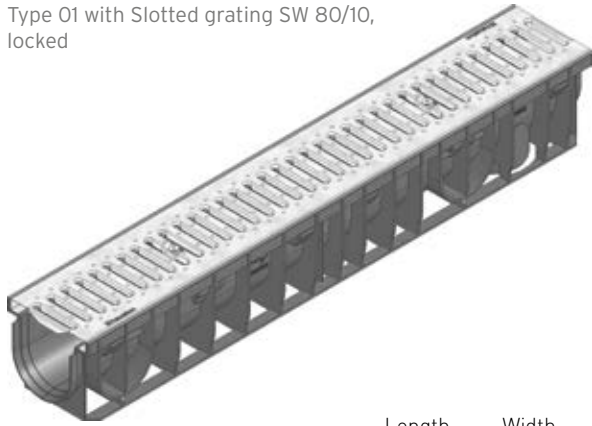
Ductile iron grating, METROPOLIS, black KTL

RECYFIX®PRO 100

Combi article

RECYFIX®PRO 100, class A 15

Type 01 with Slotted grating SW 80/10, locked



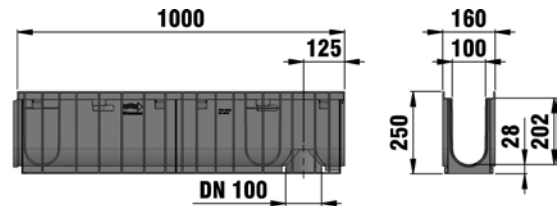
	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with Slotted grating SW 80/10, locked	1000	160	150	92	278	4,8	47021	47026
Type 0105 with Slotted grating SW 80/10, locked	500	160	150	92	278	2,4	47022	47027
Type 010 with Slotted grating SW 80/10, locked	1000	160	200	142	278	5,4	47023	47028
Type 01005 with Slotted grating SW 80/10, locked	500	160	200	142	278	2,7	47024	47029
Type 020 with slotted grating, SW 80/10, locked	1000	160	250	192	278	6,6	48621	48622
Type 02005 with slotted grating, SW 80/10, locked	500	160	250	192	278	3,2	48671	48672
Type 75 with slotted grating, SW 80/10, locked	1000	160	75	35	278	4,0	47018	47012
Type 95 with slotted grating, SW 80/10, locked	1000	160	95	55	278	4,6	47019	47013

The quality of stainless steel material corresponds to CNS 1.4301.

RECYFIX® PRO 100

RECYFIX® PRO 100, class B 125

Type 020 with GUGI-Grating made of PA-GF, MW 15/25, black, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 01 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	150	92	444	4,3	47035
Type 0105 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	500	160	150	92	444	2,1	47036
Type 010 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	200	142	444	4,7	47040
Type 01005 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	500	160	200	142	444	2,5	47041
Type 020 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	250	192	444	5,5	48623
Type 02005 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	500	160	250	192	444	2,8	48673
Type 75 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	75	35	444	2,9	47032
Type 95 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	95	55	444	3,6	47033
Type 01 with mesh grating, MW 30/30, galvanised, locked	1000	160	150	92	878	5,4	47044
Type 0105 with mesh grating, MW 30/30, galvanised, locked	500	160	150	92	869	2,6	47045
Type 010 with mesh grating, MW 30/30, galvanised, locked	1000	160	200	142	878	5,7	47046
Type 01005 with mesh grating, MW 30/30, galvanised, locked	500	160	200	142	869	2,9	47047
Type 020 with mesh grating, MW 30/30, galvanised, locked	1000	160	250	192	878	6,8	48624
Type 02005 with mesh grating, MW 30/30, galvanised, locked	500	160	250	192	869	3,5	48674
Type 75 with mesh grating MW 30/30, galvanised, locked*	1000	160	75	35	878	4,2	47010
Type 95 with mesh grating MW 30/30, galvanised, locked	1000	160	95	55	878	4,6	47011

* For frequently used areas we recommend FASERFIX KS Channels shallow (see CIVILS).

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX® POINT
FASERFIX® POINT

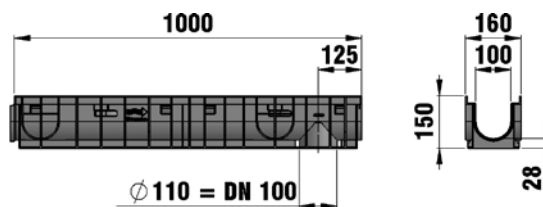
RECYFIX®
GREEN

LINEFIX®

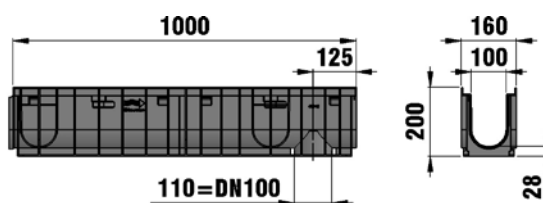
RECYFIX® PRO 100

RECYFIX® PRO 100, class C 250

Type 01 with FIBRETEC slotted grating, SW 9, black



Type 010 with ductile longitudinal grating, KTL, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 01 with FIBRETEC slotted grating, SW 9, black	1000	160	150	92	372	4,6	47055	-
Type 0105 with FIBRETEC slotted grating, SW 9, black	500	160	150	92	372	2,3	47056	-
Type 010 with FIBRETEC slotted grating, SW 9, black	1000	160	200	142	372	4,9	47060	-
Type 01005 with FIBRETEC slotted grating, SW 9, black	500	160	200	142	372	2,5	47061	-
Type 020 with FIBRETEC slotted grating, SW 9, black, locked	1000	160	250	192	372	5,8	48625	-
Type 02005 with FIBRETEC slotted grating, SW 9, black, locked	500	160	250	192	372	3,0	48675	-
Type 75 with FIBRETEC slotted grating, SW 9, black	1000	160	75	35	372	3,4	47062	-
Type 95 with FIBRETEC slotted grating, SW 9, black	1000	160	95	55	372	3,7	47063	-
Type 01 with ductile longitudinal grating, KTL, locked	1000	160	150	92	528	10,4	48634	-
Type 0105 with ductile longitudinal grating, KTL, locked	500	160	150	92	528	5,2	48635	-
Type 010 with ductile longitudinal grating, KTL, locked	1000	160	200	142	528	11,1	48645	-
Type 01005 with ductile longitudinal grating, KTL, locked	500	160	200	142	528	5,6	48646	-

RECYFIX® PRO 100

RECYFIX® PRO 100, class C 250

	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item-No. galvanised	Item-No. stainless steel
Type 020 with longitudinal ductile iron grating, KTL-coated, slot distance 9 mm, locked	1000	160	250	192	528	7,5	48626	-
Type 02005 with longitudinal ductile iron grating, SW 9, KTL-coated, black, locked	500	160	250	192	528	5,6	48676	-
Type 75 with ductile longitudinal grating, KTL, locked	1000	160	75	35	528	9,5	47038	-
Type 95 with ductile longitudinal grating, KTL, locked	1000	160	95	55	528	10,0	47039	-
Type 01 with Slotted grating SW 80/10, locked	1000	160	150	92	281	7,3	47074	47084
Type 0105 with Slotted grating SW 80/10, locked	500	160	150	92	281	3,7	47075	47085
Type 010 with Slotted grating SW 80/10, locked	1000	160	200	142	281	7,6	47076	47086
Type 01005 with Slotted grating SW 80/10, locked	500	160	200	142	281	4,0	47077	47087
Type 020 with reinforced slotted grating, SW 80/10, locked	1000	160	250	192	281	9,0	48627	48628
Type 02005 with reinforced slotted grating, SW 80/10, locked	500	160	250	192	281	4,5	48677	48678
Type 75 with reinforced ductile iron grating, locked*	1000	160	75	35	281	6,5	47014	47016
Type 95 with reinforced ductile iron grating, SW 80/10, locked	1000	160	95	55	281	6,9	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.

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX® POINT
FASERFIX® POINT

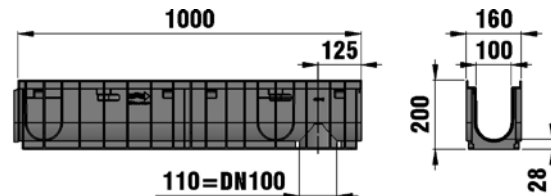
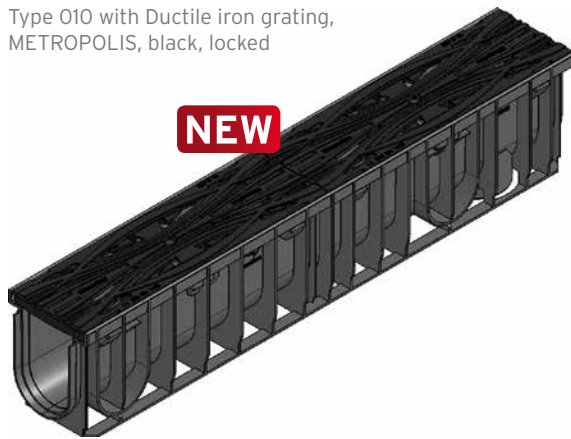
RECYFIX®
GREEN

LINEFIX®

RECYFIX® PRO 100

RECYFIX® PRO 100, class C 400

Type 010 with Ductile iron grating,
METROPOLIS, black, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 01 with Ductile iron grating, METROPOLIS, black, locked	1000	160	150	92	165	12,4	47002
Type 0105 with Ductile iron grating, METROPOLIS, black, locked	500	160	150	92	165	11,3	47003
Type 010 with Ductile iron grating, METROPOLIS, black, locked	1000	160	200	142	165	12,9	47057
Type 01005 with Ductile iron grating, METROPOLIS, black, locked	500	160	200	142	165	6,5	47058
Type 020 with Ductile iron grating, METROPOLIS, black, locked	1000	160	250	192	165	13,9	48618
Type 02005 with Ductile iron grating, METROPOLIS, black, locked	500	160	250	192	165	6,9	48619
Type 75 with Ductile iron grating, METROPOLIS, black, locked	1000	160	75	35	165	11,4	47008
Type 95 with Ductile iron grating, METROPOLIS, black, locked	1000	160	95	55	165	11,8	47009

* For frequently used areas we recommend FASERFIX KS Channels shallow (see CIVILS).
The quality of stainless steel material corresponds to CNS 1.4301.

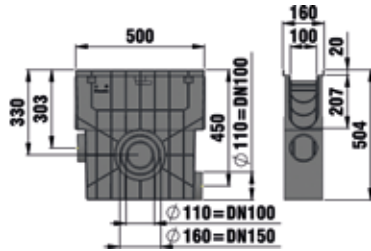
RECYFIX® PRO 100

Accessories

Trash boxes



Trash box with PE mud bucket and Slotted grating SW 80/10, class A 15, locked



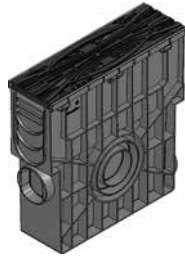
Trash box with galvanised mud bucket and GUGI-Grating made of PA-GF, MW 15/25, black



Trash box with PE mud bucket and mesh grating MW 30/30, class B 125, locked



Trash box with PE mud bucket and FIBRETEC slotted grating, SW 9, black



Trash box with PE mud bucket and ductile iron grating METROPOLIS, black KTL-coated, locked

	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, class A 15, locked	500	160	504	5,7	47025	47043
Trash box with galvanised mud bucket and GUGI-Grating made of PA-GF, MW 15/25, black	500	160	504	5,9	47053	-
Trash box with PE mud bucket and mesh grating MW 30/30, class B 125, locked	500	160	504	5,9	47048	-
Trash box with PE mud bucket and FIBRETEC slotted grating, SW 9, black	500	160	504	5,9	47054	-
Trash box with PE mud bucket and with ductile longitudinal grating, KTL, class C 250, locked	500	160	504	8,1	48655	-
Trash box with PE mud bucket and Slotted grating SW 80/10, class C 250, locked	500	160	504	7,1	47078	47088
NEW Trash box with PE mud bucket and ductile iron grating METROPOLIS, black KTL-coated, locked	500	160	504	9,5	48657	-

The quality of stainless steel material corresponds to CNS 1.4301.

RECYFIX® PRO 100

Accessories

End caps



End cap closed for type 01



End cap made of PP with outlet DN 100 for type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type 01	-	160	124	-	48681
End cap made of PP with outlet DN 100 for type 01	-	160	200	0,1	48691
End cap closed for type 010	-	160	176	0,1	47082
End cap made of PP with outlet DN 100 for type 010	-	160	201	0,1	47093
End cap made of PP, type 020	-	160	-	0,1	48683
End cap made of PP with outlet DN 100, type 020	-	160	-	0,1	48695
End cap Type 75	-	160	61	-	47097
End cap Type 95	-	160	81	-	47098

RECYFIX® PRO 100

Further accessories



Foul air trap for RECYFIX trash box 100



Foul air trap, vertical, DN 100



Foul air trap set, vertical DN 100 for RECYFIX 100



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.
Foul air trap for RECYFIX trash box 100	75	78	135	0,1	967
Foul air trap, vertical, DN 100	-	187	181	0,6	40295
Foul air trap set, vertical DN 100 for RECYFIX 100	-	-	203	0,4	40294
Foul air trap, horizontal, with rubber sealing, black	-	-	-	0,1	966
Mud bucket vertical DN 100, black	100	100	85	-	40293
Step Fall Adapter for step slope, from type 01 to type 010, from type 010 to type 020	174	98	92	0,2	48790
RECYFIX sealing material, 290 ml	-	-	-	0,5	19053
RECYFIX primer, 250 ml	-	-	-	0,5	19054
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,6	980

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

RECYFIX®
GREEN

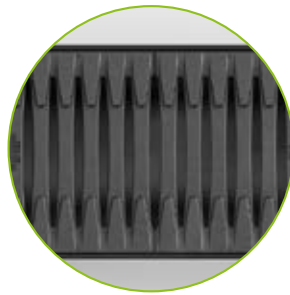
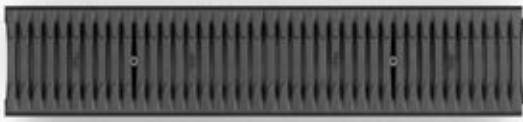
LINEFIX®

Grating options
RECYFIX®PRO 150



Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



FIBRETEC Slotted gratings, composite material

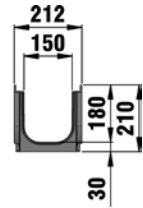
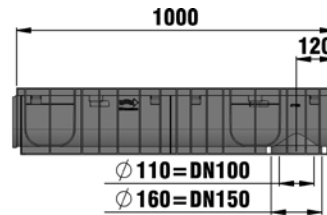
Bar distance: 9 mm

RECYFIX® PRO 150

Combi article

RECYFIX® PRO 150, classe B 125

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

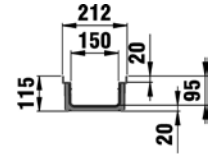
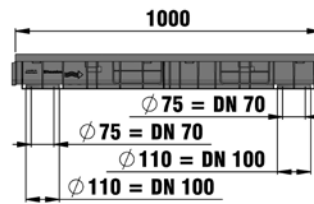
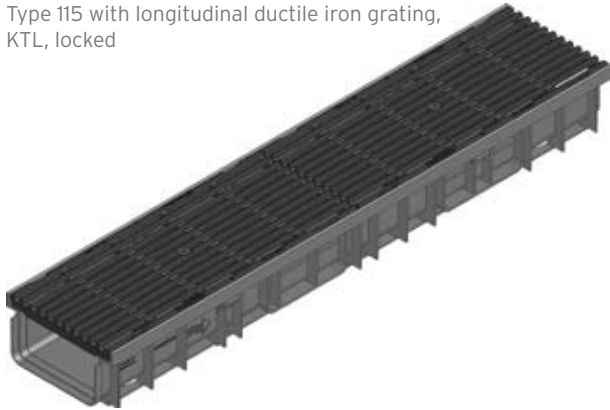


	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 01 with FIBRETEC Slotted grating, SW 9 mm, black, locked	1000	212	210	230	500	7,4	47135
Type 0105 with FIBRETEC Slotted grating, SW 9 mm, black, locked	500	212	210	230	500	3,7	47136
Type 115 with FIBRETEC Slotted grating, SW 9 mm, black, locked	1000	212	115	116	500	6,1	47133

RECYFIX® PRO 150

RECYFIX® PRO 150, classe C 250

Type 115 with longitudinal ductile iron grating, KTL, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 01 with longitudinal ductile iron grating, KTL, locked	1000	212	210	230	740	17,1	47131
Type 0105 with longitudinal ductile iron grating, KTL, locked	500	212	210	230	740	8,6	47137
Type 115 with longitudinal ductile iron grating, KTL, locked	1000	212	115	116	740	15,9	47134

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

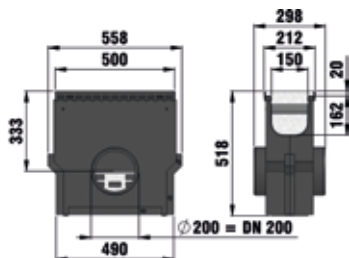
RECYFIX®
GREEN

LINEFIX®

RECYFIX® PRO 150

Accessories

Trash boxes



Trash box with galvanised mud bucket and FIBRETEC Slotted grating, black, SW 9 mm, class B 125, locked

Trash box with galvanised mud bucket and longitudinal ductile iron grating, KTL, class C 250, locked

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and FIBRETEC Slotted grating, black, SW 9 mm, class B 125, locked	500	212	518	18,7	47153
Trash box with galvanised mud bucket and longitudinal ductile iron grating, KTL, class C 250, locked	500	212	518	23,6	47154

End caps



End cap closed, type 115



End cap combined, PP with outlet DN 70/100 for type 01

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 115	-	208	100	-	47197
End cap combined, PP with outlet DN 70/100 for type 01	-	210	218	0,2	40591

RECYFIX® PRO 150

Further accessories



Mud bucket vertical DN 100, black



Mud bucket DN 150

	Length mm	Width mm	Height mm	Weight kg	Item No.
Mud bucket vertical DN 100, black	100	100	85	-	40293
Mud bucket DN 150	-	-	180	0,6	2191
RECYFIX sealing material, 290 ml	-	-	-	0,5	19053
RECYFIX primer, 250 ml	-	-	-	0,5	19054
Holesaw, Ø 102 mm, with tool holder for a driller	-	-	-	0,6	980

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

RECYFIX®
GREEN

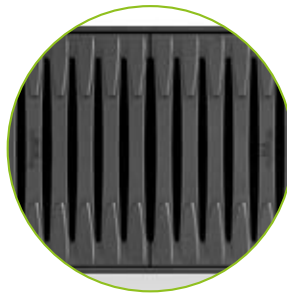
LINEFIX®

Grating options
RECYFIX®PRO 200



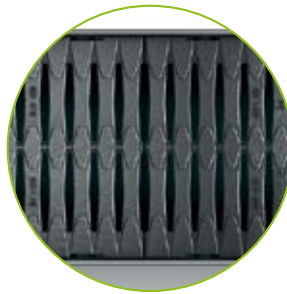
Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



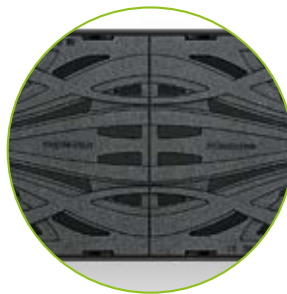
FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm



Ductile iron gratings, G-TEC

Bar distance: 2 x 85 x 9 mm



Ductile iron grating, METROPOLIS, black KTL

Grating options
RECYFIX®PRO 300



Ductile iron gratings, G-TEC

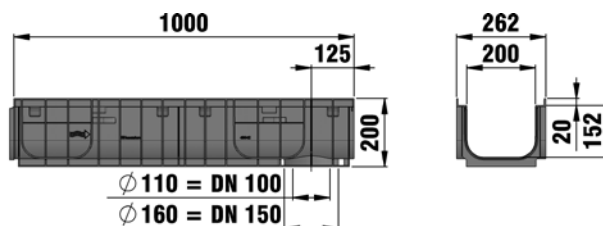
Bar distance: 2 x 141 x 9 mm

RECYFIX®PRO 200

Combi article

RECYFIX®PRO 200, class B 125

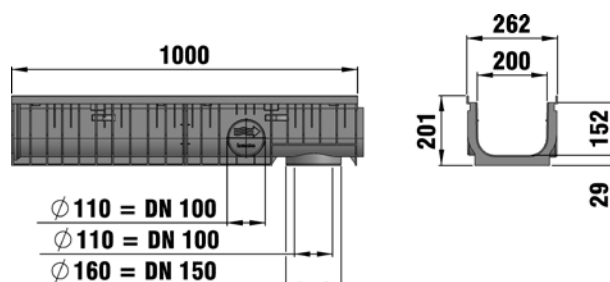
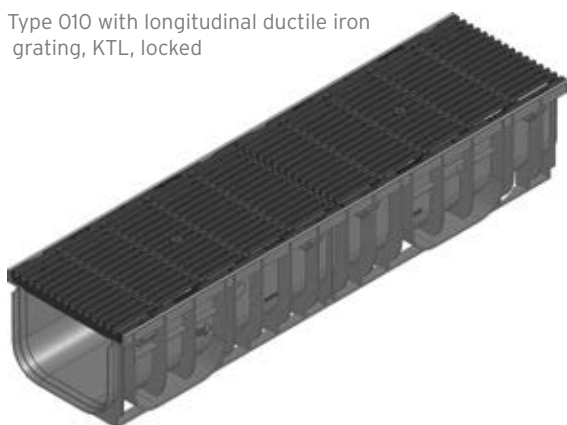
Type 010 with FIBRETEC Slotted grating,
SW 9 mm, black, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 010 with FIBRETEC Slotted grating, SW 9 mm, black, locked	1000	262	200	294	656	8,3	47246
Type 115 with FIBRETEC Slotted grating, SW 9 mm, black, locked	1000	262	115	150	656	7,0	47233

RECYFIX®PRO 200, class C 250

Type 010 with longitudinal ductile iron
grating, KTL, locked

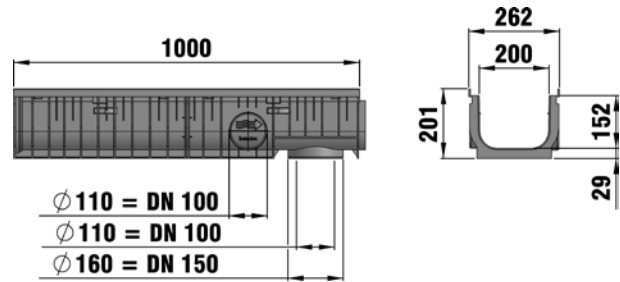


	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 010 with longitudinal ductile iron grating, KTL, locked	1000	262	200	294	951	22,6	47247
Type 115 with longitudinal ductile iron grating, KTL, locked	1000	262	115	150	951	21,6	47234
Type 010 with G-TEC grating, black, KTL-coated, locked	1000	262	200	294	595	20,6	47240
Type 115 with G-TEC grating, black, KTL-coated, locked	1000	262	115	150	595	19,3	47231

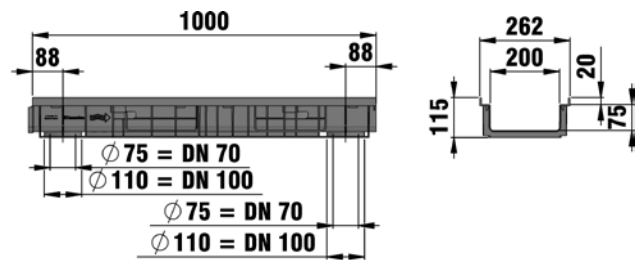
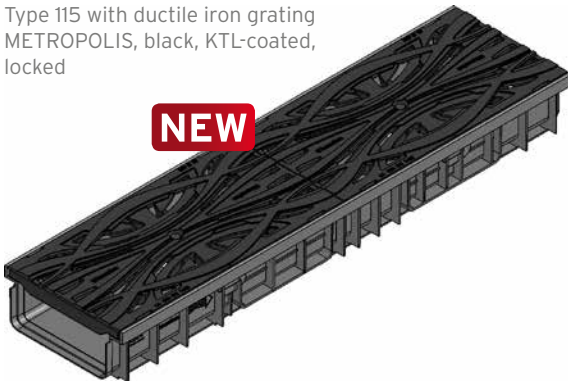
RECYFIX® PRO 200

RECYFIX® PRO 200, class D 400

Type 010 with G-TEC grating, KTL-coated, locked



Type 115 with ductile iron grating METROPOLIS, black, KTL-coated, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 010 with G-TEC grating, KTL-coated, locked	1000	262	200	294	595	20,6	47245
Type 115 with G-TEC grating, KTL-coated, locked	1000	262	115	150	595	19,3	47232
Type 010 with ductile iron grating METROPOLIS, black, KTL-coated, locked	1000	262	200	294	279	23,8	47272
Type 01005 with ductile iron grating METROPOLIS, black, KTL-coated, locked	500	262	200	294	279	12,3	47273
Type 115 with ductile iron grating METROPOLIS, black, KTL-coated, locked	1000	262	115	150	279	23,8	47271

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®-POINT
FASERFIX®-POINT

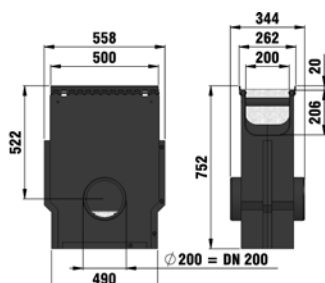
RECYFIX®
GREEN

LINEFIX®

RECYFIX® PRO 200

Accessories

Trash boxes



Trash box with galvanised mud bucket and FIBRETEC Slotted grating, black, class B 125, locked

Trash box with PE mud bucket and ductile iron grating METROPOLIS, black KTL-coated, locked

	Length mm	Width mm	Height mm	Weight kg	Item No.
Trash box with galvanised mud bucket and FIBRETEC Slotted grating, black, class B 125, locked	500	262	752	29,2	47253
Trash box with galvanised mud bucket and longitudinal ductile iron grating, KTL, class C 250, locked	500	262	752	36,2	47254
Trash box with galvanised mud bucket and G-TEC grating, class C 250, locked	500	262	752	36,4	47252
Trash box with galvanised mud bucket and G-TEC Ductile iron grating, black, class D 400, locked	500	262	752	35,4	47255
NEW Trash box with PE mud bucket and ductile iron grating METROPOLIS, black KTL-coated, locked	500	262	752	37,2	47278

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 100, Type 010	-	258	217	0,2	41387
End cap closed, type 115	-	250	100	0,1	47297

RECYFIX® PRO 200

Further accessories



Foul air trap, vertical,
DN 100



Mud bucket DN 150

	Length mm	Width mm	Height mm	Weight kg	Item No.
Foul air trap, vertical, DN 100	-	187	181	0,6	40295
Mud bucket DN 150	-	-	180	0,6	2191
RECYFIX sealing material, 290 ml	-	-	-	0,5	19053
RECYFIX primer, 250 ml	-	-	-	0,5	19054
Holesaw, Ø 102 mm, with tool holder for a drill	-	-	-	0,6	980

RECYFIX®
PRO

RECYFIX®
PLUS

RECYFIX®
STANDARD

DACHFIX®

Slotted Channel

FASERFIX®
STANDARD

RECYFIX®POINT
FASERFIX®POINT

RECYFIX®
GREEN

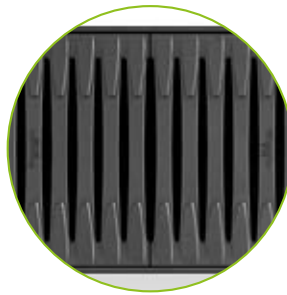
LINEFIX®

Grating options
RECYFIX®PRO 200



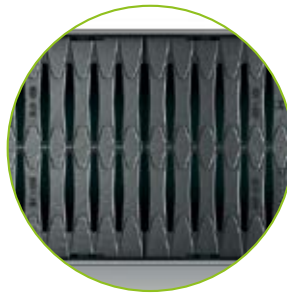
Longitudinal ductile iron gratings, KTL

Bar distance: 9 mm



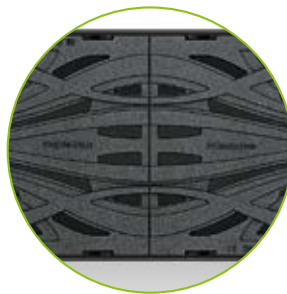
FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm



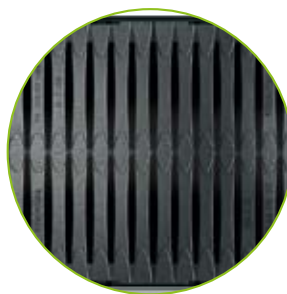
Ductile iron gratings, G-TEC

Bar distance: 2 x 85 x 9 mm



Ductile iron grating, METROPOLIS, black KTL

Grating options
RECYFIX®PRO 300



Ductile iron gratings, G-TEC

Bar distance: 2 x 141 x 9 mm

RECYFIX®PRO 200

1 a) Product known

- Go to the product page.



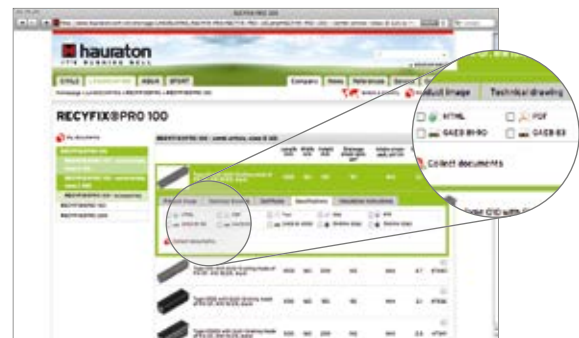
b) Product unknown

- Go to the specification tool.



- choose application
- choose field of application, loading capacity and nominal size
- select from the proposed systems / items

2 Choose required format and add it to your documents



3 Download tender text

- Go to „My documents“.



LINEFIX®	RECYFIX® GREEN	RECYFIX®POINT FASERFIX®POINT	FASERFIX® STANDARD	Slotted Channel	DACHFIX®	RECYFIX® STANDARD	RECYFIX® PLUS	RECYFIX® PRO
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RECYFIX® MONOTEC

Drainage system for traffic, parking and commercial areas.





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 167.





Installation in asphalt surface



Installation in concrete surface



Installation in paving surfaces



Particularly resistant to dynamic forces



Ideal for heavily-trafficked areas

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

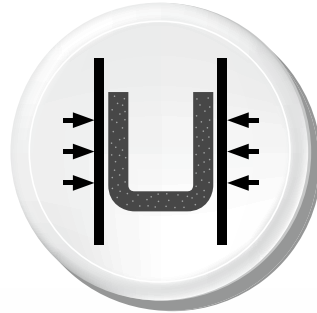
RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

Your benefits with **RECYFIX®** MONOTEC

100% corrosion free



unbreakable

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

= **safety**



high hydraulic capacity

- optimised inlet surface with FIBRETEC design
- high volume through slim channel construction

= **safety**



low weight ensures easy handling on site

- significantly lighter than channels made of mineral material
- especially easy transport and fast installation

= **Cost savings**



Fast installation



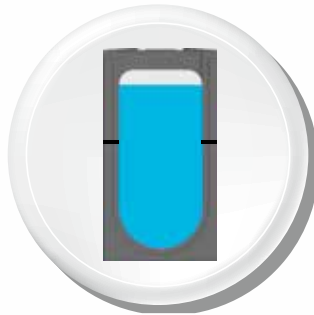
Easy transport



Simple processing



Highest quality due to Hightech-Manufacturing process. Watch the load test movie of the monolithic channels on: www.hauraton.com - Videos



monolithic drainage channel for highest stability

- manufactured with two parts, which are put together to a monolithic channel in a mirror welding process.*
- vandalism proof
- withstands frequently traffic permanently

= Security

* 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. The connections are afterwards extremely reliable.



high resistance

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

= Durability



low maintenance

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

= Cost savings

FASERFIX®SUPER

FASERFIX®KS

RECYFIX®PLUS X

RECYFIX®NC

RECYFIX®MONOTEC

RECYFIX®HICAP®

FASERFIX®POINT

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.



Enormous Volume

- channel reliably takes in heavy rain
- more area per channel meter can be drained

RECYFIX® MONOTEC

Nominal size	Height	Drainage cross-section		Volume/Channel
100 mm	230 mm	190.5 cm ²		19.1 l
100 mm	280 mm	245.5 cm ²		24.6 l
100 mm	380 mm	355.5 cm ²		35.6 l
200 mm	450 mm	746.1 cm ²		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

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

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**

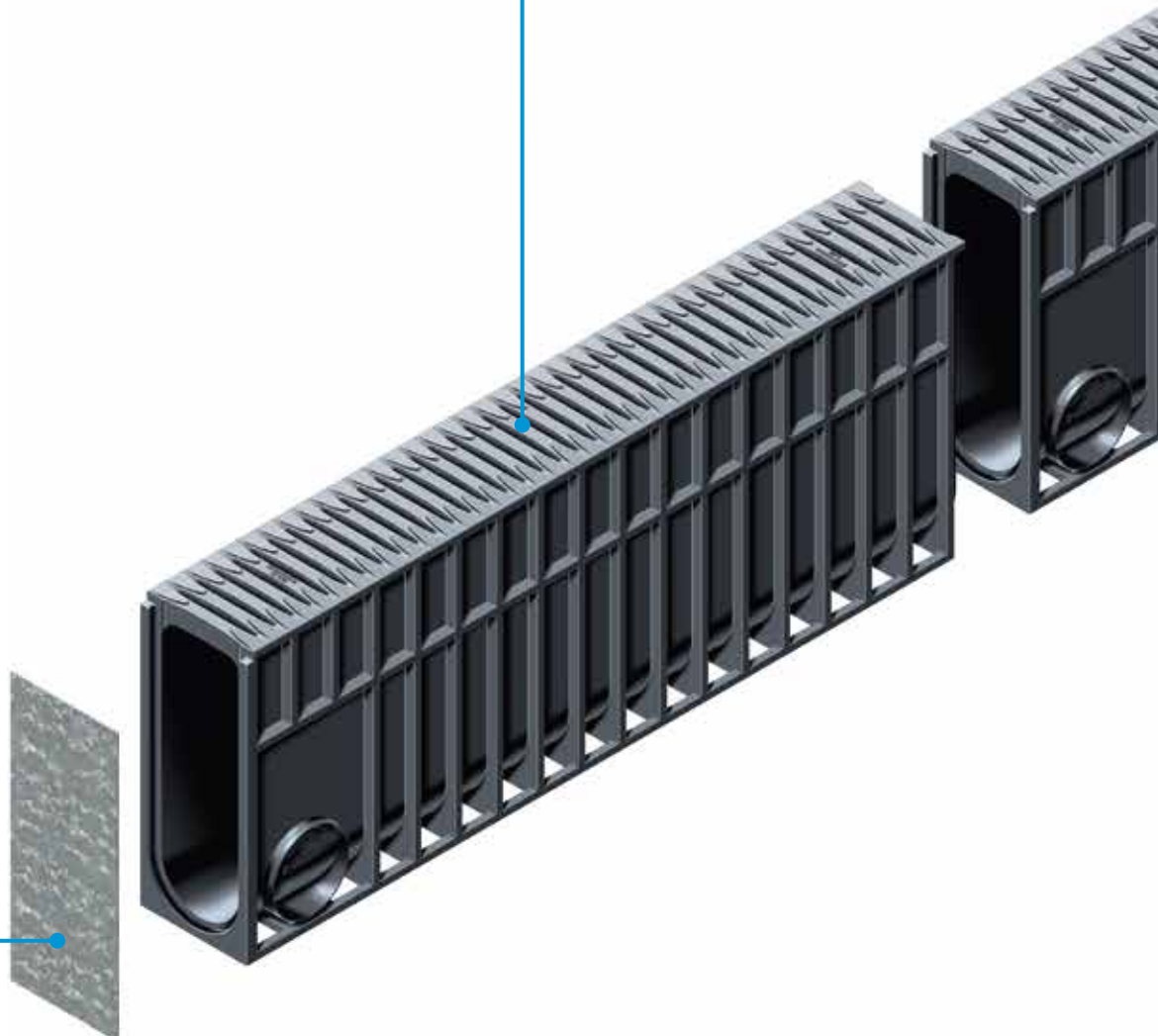


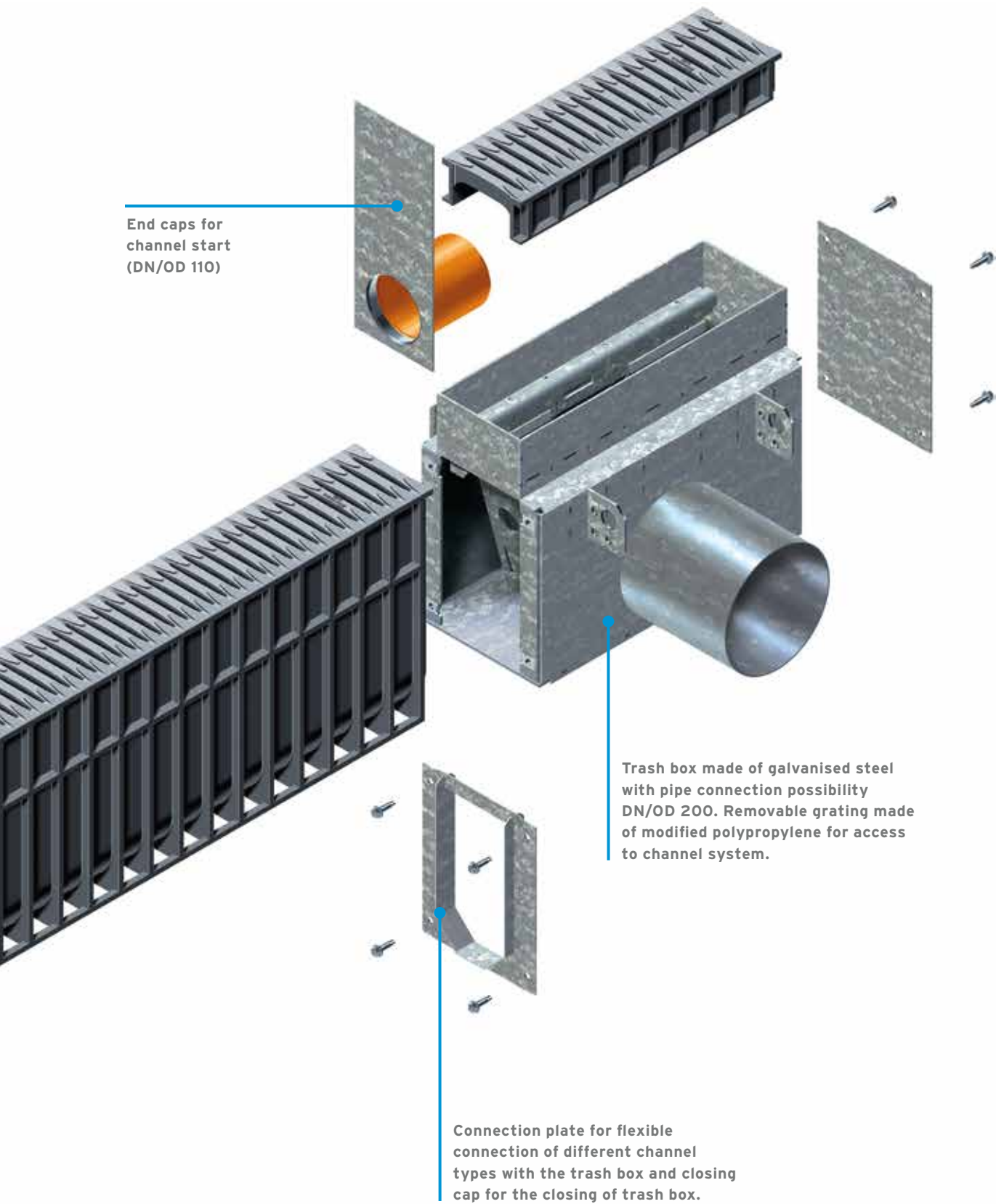
**Category D 400,
Load Class 400 kN**

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)





FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

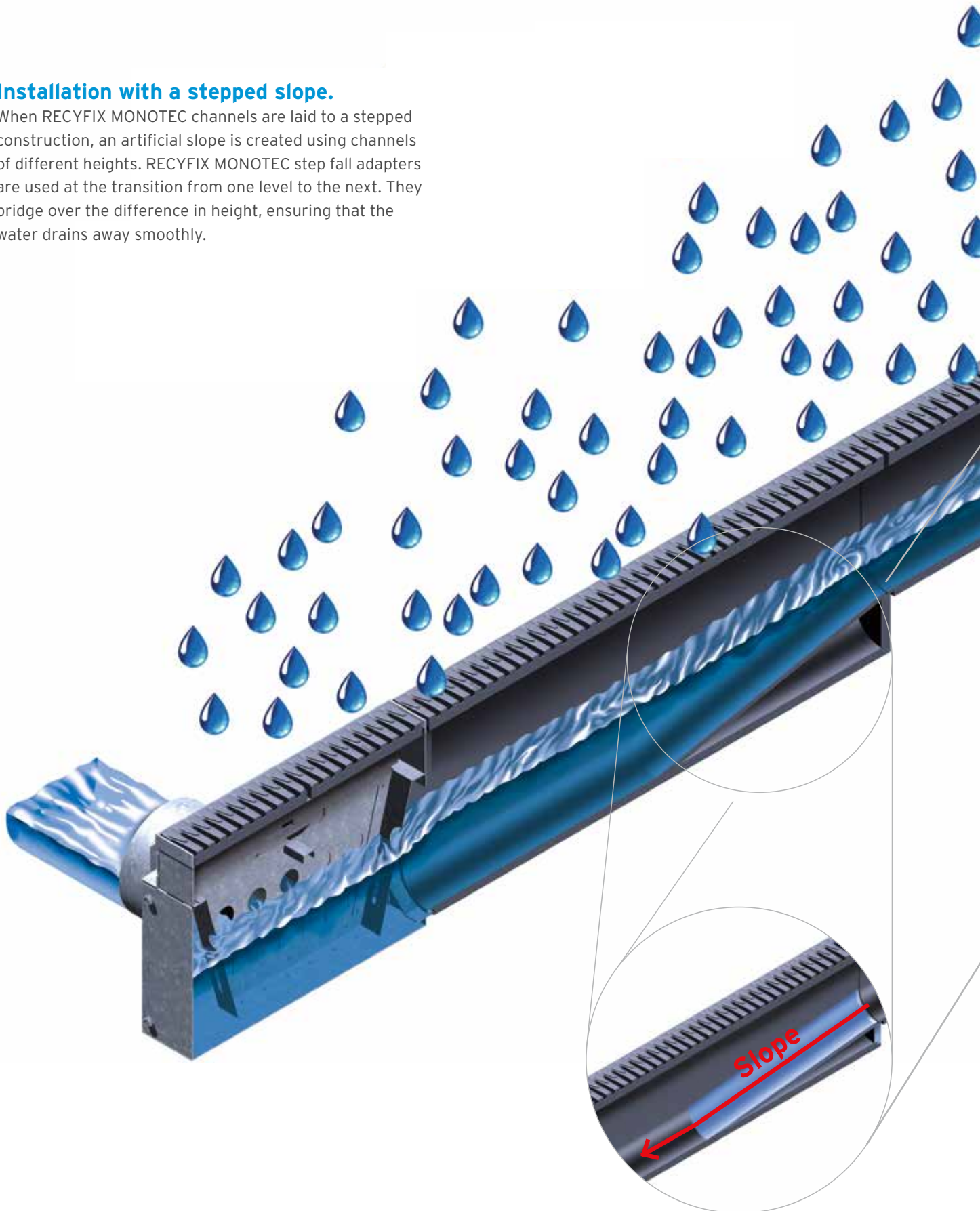
FASERFIX® POINT

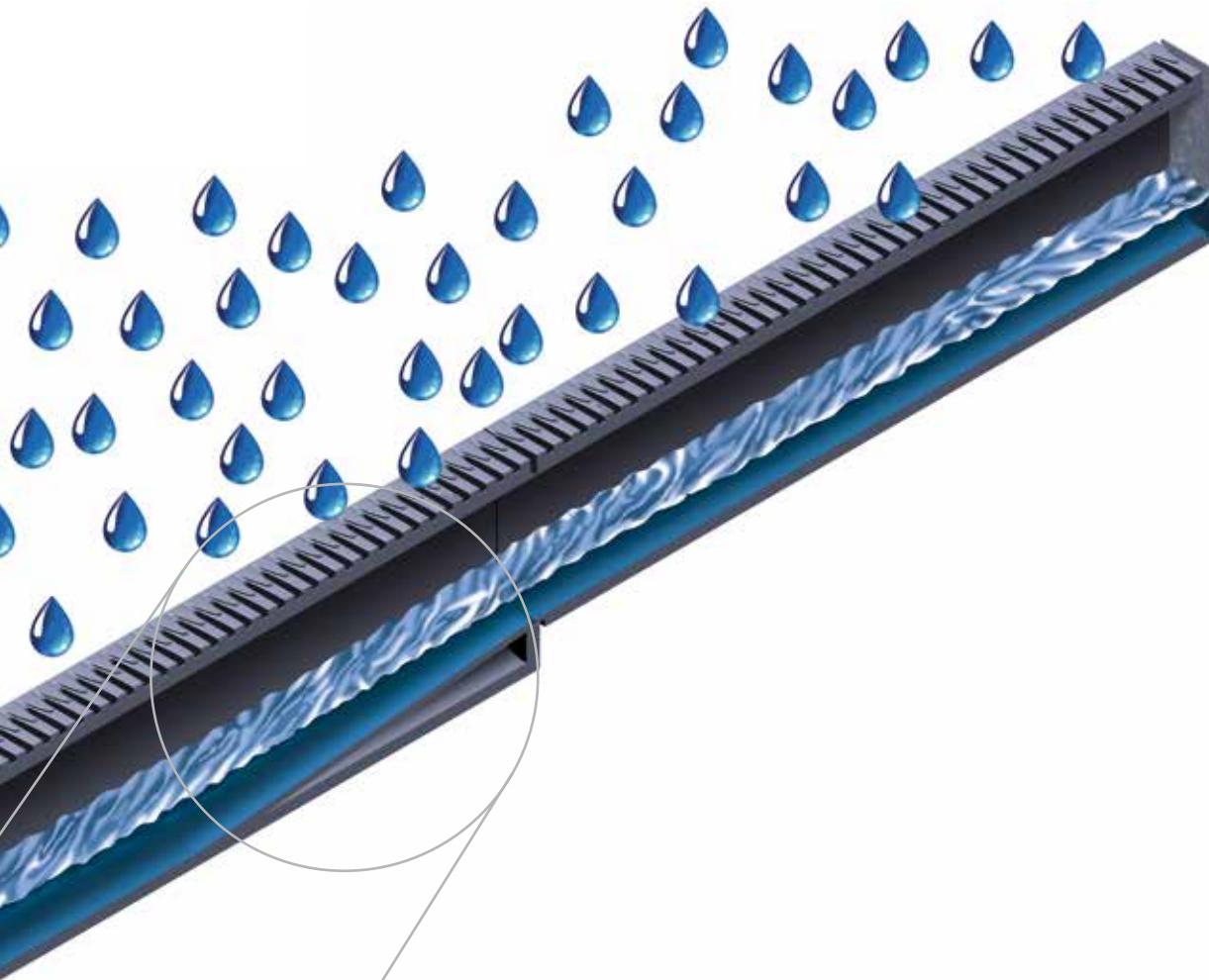
RECYFIX® MONOTEC Step Fall

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 over the difference in height, ensuring that the water drains away smoothly.





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

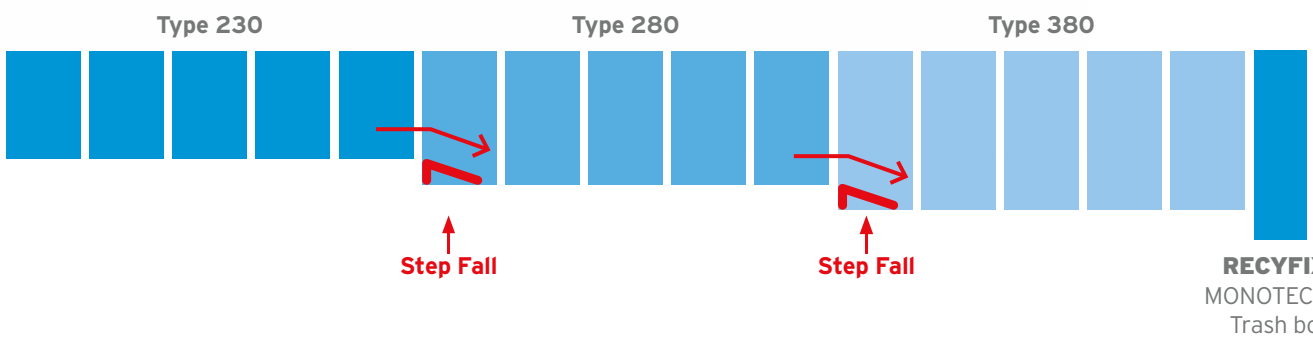


Step Fall Adapter for transition from type 230 to 280



Step Fall Adapter for transition from type 280 to 380

RECYFIX®MONOTEC Channels 100:



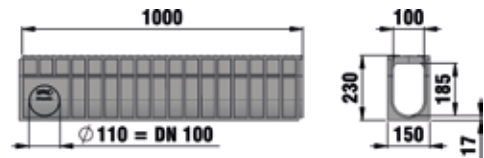
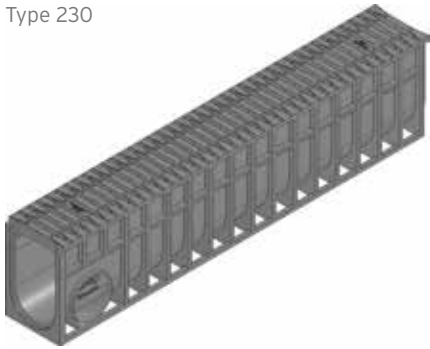
FASERFIX®SUPER
FASERFIX®KS
RECYFIX®PLUS X
RECYFIX®NC
RECYFIX®MONOTEC
RECYFIX®HICAP®
FASERFIX®POINT

RECYFIX® MONOTEC 100

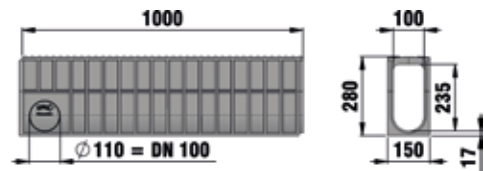
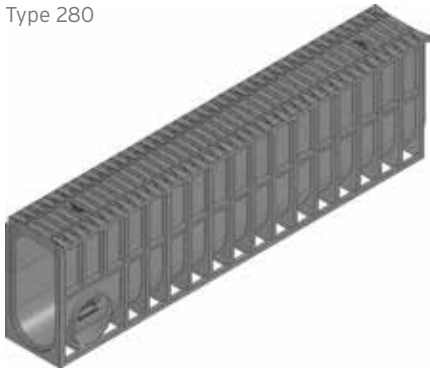
Channel

RECYFIX® MONOTEC 100, up to class D 400

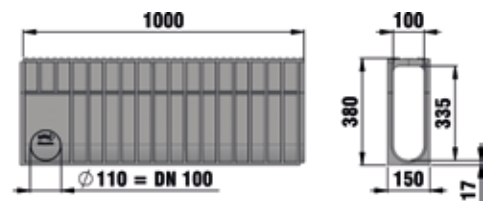
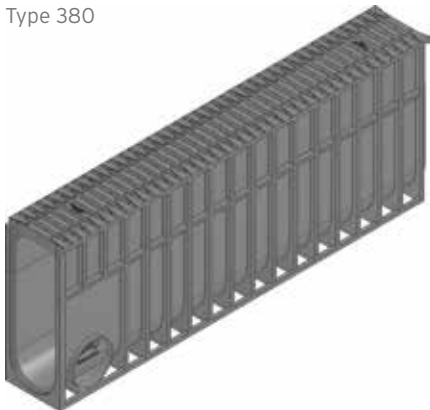
Type 230



Type 280



Type 380

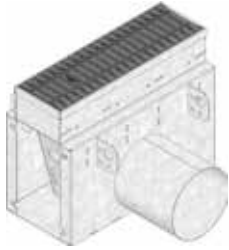


	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 230	1000	150	230	190.5	372	7,59	36000
Type 280	1000	150	280	245.5	372	8,43	36005
Type 380	1000	150	380	355.5	372	10,42	36015

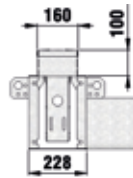
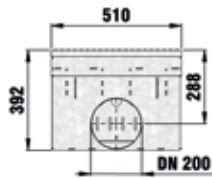
RECYFIX® MONOTEC 100

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	-	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).

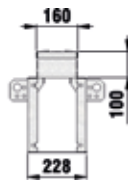
RECYFIX® MONOTEC 100

Accessories

Inspection box



Inspection box



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.
Inspection box	510	160	392	15,55	36035
Looking handle with screw for protection against vandalism	-	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

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

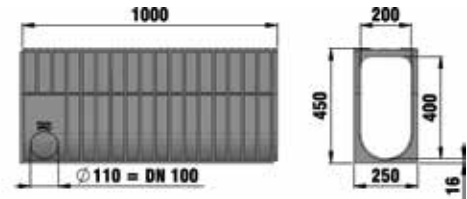
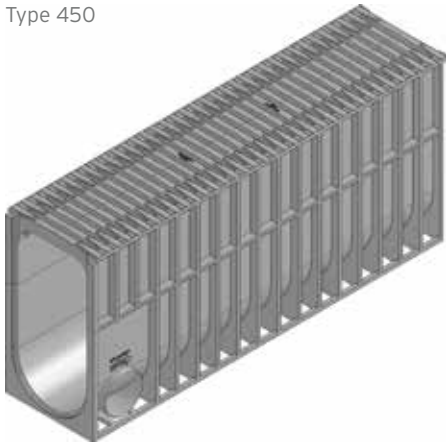
	Length mm	Width mm	Height mm	Weight kg	Item No.
Step Fall Adapter for step slope, from type 230 to 280	510	125	113	0,48	36070
Step Fall Adapter for step slope, from type 280 to 380	510	125	163	0,59	36071

RECYFIX® MONOTEC 200

Channel

RECYFIX® MONOTEC 200, up to class D 400

Type 450

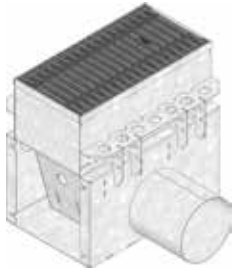


	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 450	1000	250	450	746.1	656	16,25	36215

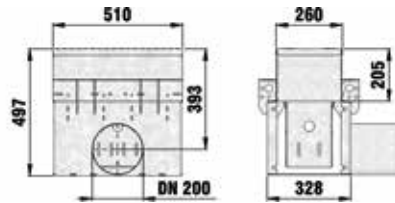
RECYFIX® MONOTEC 200

Accessories

Trash boxes



Trash box with galvanised bucket



Connection plate with screw set, galvanised, channel type 450

	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).

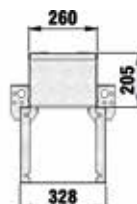
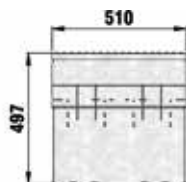
RECYFIX® MONOTEC 200

Accessories

Inspection box



Inspection box



Connection plate with screw set, galvanised, channel type 450

	Length mm	Width mm	Height mm	Weight kg	Item No.
Inspection box	510	260	497	24,50	36235
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:

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- Option 2: two-sided channel connection: You will need 2 connection plates with the same channel height (= same type).

RECYFIX® MONOTEC 200

End caps



End cap closed, galvanised, type 450

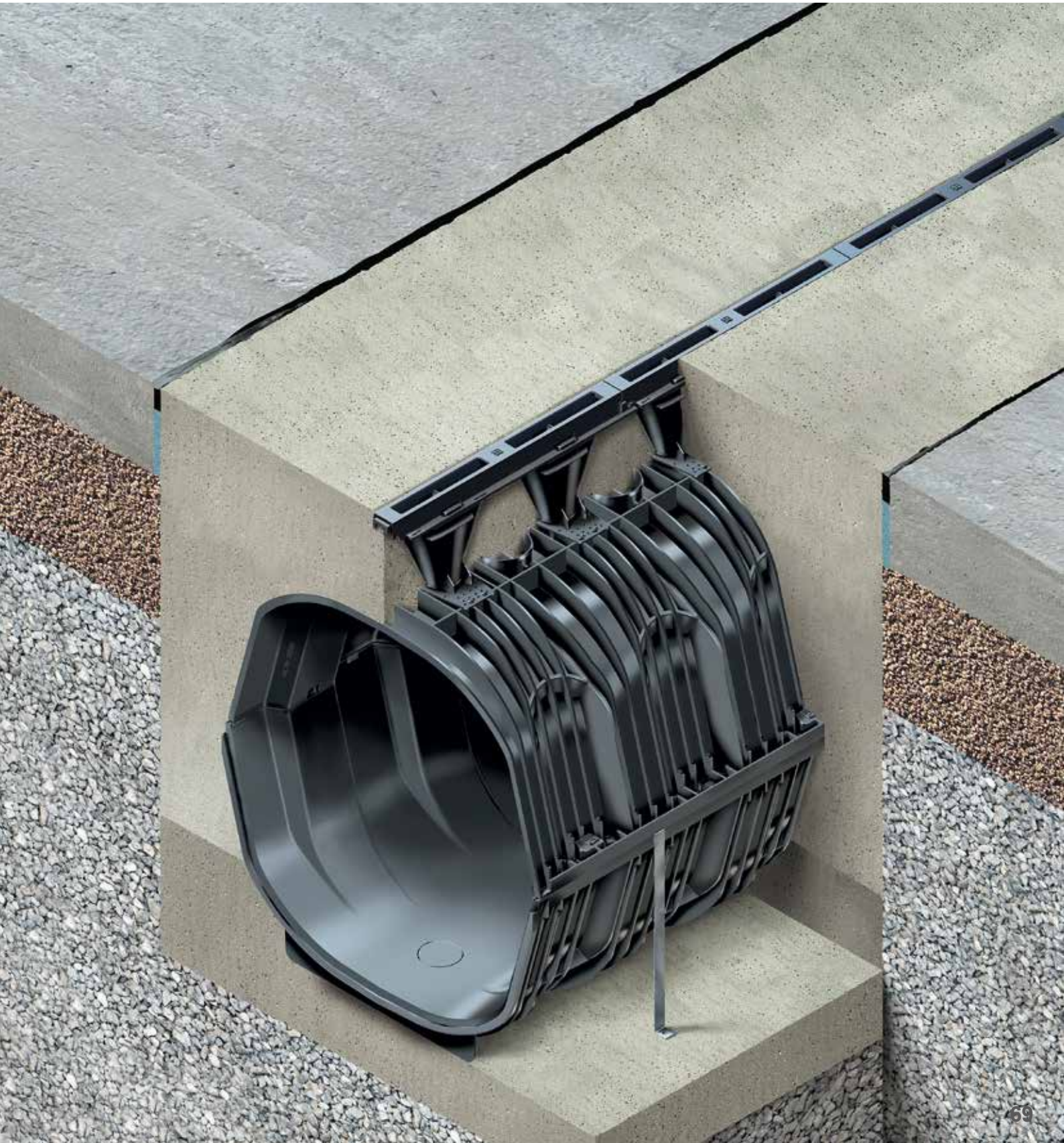


End cap with horizontal PVC-U pipe outlet DN/OD 110, galvanised, type 450

	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

RECYFIX® HICAP®

High capacity drainage system for the highest load category.



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



RECYFIX® HICAP®

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
- less manholes and outlets
- provides an uniform visual appearance also in large projects
- no separate gratings
- no expensive pipe installations required
- high hydraulic capacity
- easy to maintain



Airport Newquay, England



Renovation city centre Szentendre, Hungary



Skyscraper ZLOTA 44 in Warsaw, Poland



Industrial estate, England



Teesport Container Terminal, UK

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

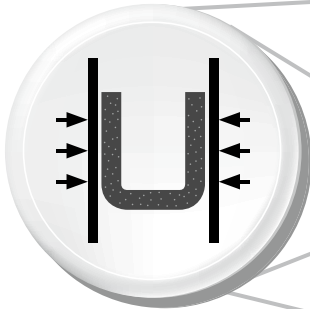
Your benefits with **RECYFIX®** HICAP®F channels



Fast & easy installation

- easy to handle and install
- integrated tongue and groove joint
- installation in one component
- less pipe installations

= **Cost saving**



Top inlet made of high-quality ductile iron and channel body from sustainable PP

- material: ductile iron EN GJS-500-7
- 23 times higher tensile strength and 9 times higher compressive strength as polymer concrete
- various gratings
- surfaces extremely robust and indestructible

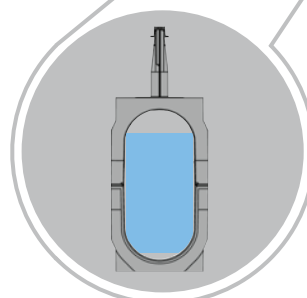
= **Security**



Channel body made from sustainable material

- material from 100 % recycled PP
- very light and unbreakable material

= **Security**



Large retention volume

- drainage and retention in one component
- high capacity and back-pressure capacity due to a variety sizes
- fewer trash boxes and pipe connections required

= **Flexibility/Security**





Link&Lock facilitates the installation

- innovative linking system for ductile iron tops
- easy and quick alignment of each channel metre

= **Cost savings**



Individual solutions

- possible radial installation
- cable and pipe installations can be laid through funnel
- ductile iron top on the surface can be interrupted while the channels on the underground continue

= **Flexibility**



Various connecting possibilities

- end cap with canal connection option
- simple possibility for preparation of corner and T-connections
- end cap adapter for connecting the next nominal width
- various options for pipe connections exist on the channel

= **Flexibility**



High stability

- designed for extreme conditions, especially for applications in heavy road traffic up to class F 900

= **Security**



Wide range

- various gratings, also available with KTL coating for extra corrosion protection
- uniform design also in different nominal widths

= **Flexibility**

FASERFIX®SUPER

FASERFIX®KS

RECYFIX®PLUS X

RECYFIX®NC

RECYFIX®MONOTEC

RECYFIX®HICAP®

FASERFIX®POINT

RECYFIX®HICAP®

**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

Sample calculation:

RECYFIX®HICAP®F with mesh 13/28 mm grating

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

Inlet capacity of a mesh 13/28 mm grating, determined at Prague Technical University:

4.0 l/s per metre

Frequently occurring yield from rain events:

150.0 l/s per hectare

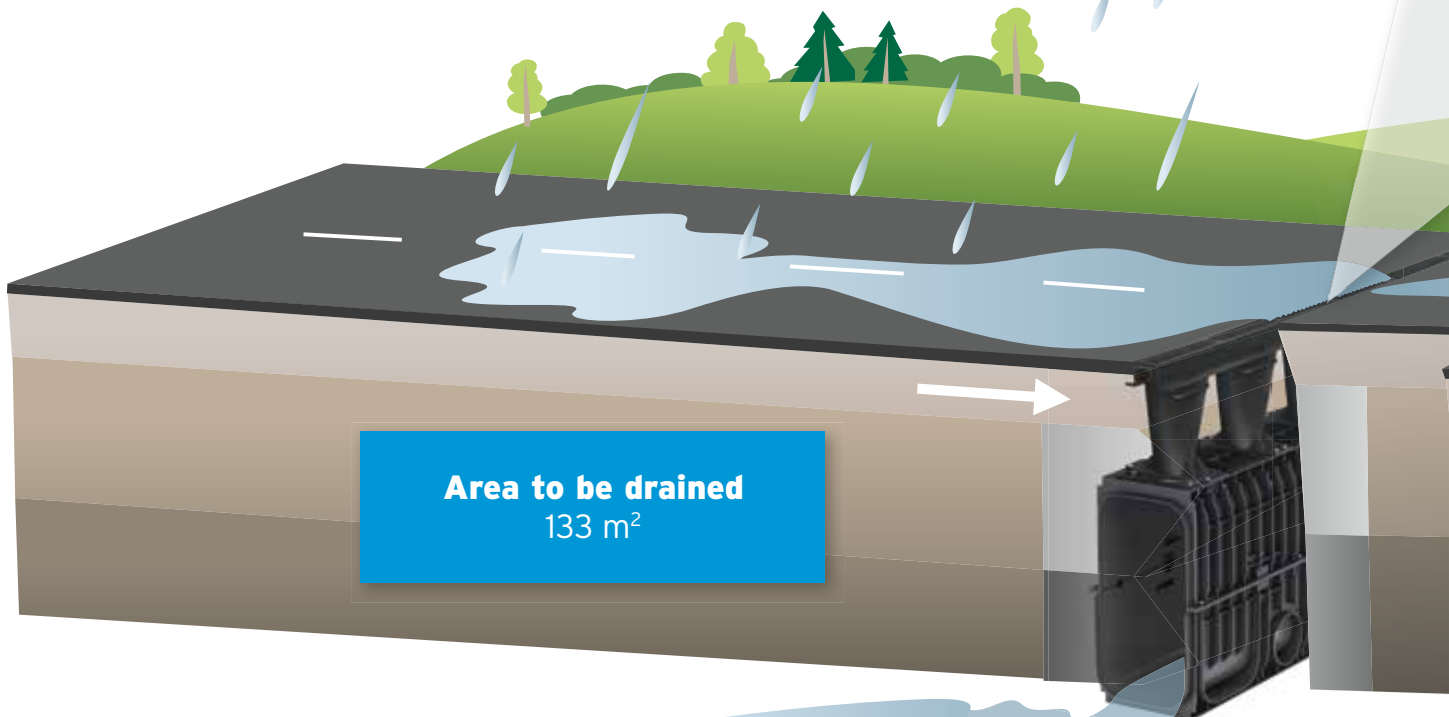
150 l/s ha = 0.015 l/s m²

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

Result of this example:




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

Rain event
150 l/s per hectare



Inlet capacity of RECYFIX®HICAP®F

(applies to all nominal widths)

Slot 6 mm		3.80
Mesh 13/28 mm		4.00
Slot 28 mm		3.60

* measured with a water head of 10 mm

Flow capacity of a
mesh 13/28 mm grating
4 l/s per metre

Area to be drained
133 m²

FASERFIX®SUPER

FASERFIX®KS

RECYFIX®PLUS X

RECYFIX®NC

RECYFIX®MONOTEC

RECYFIX®HICAP®

FASERFIX®POINT

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



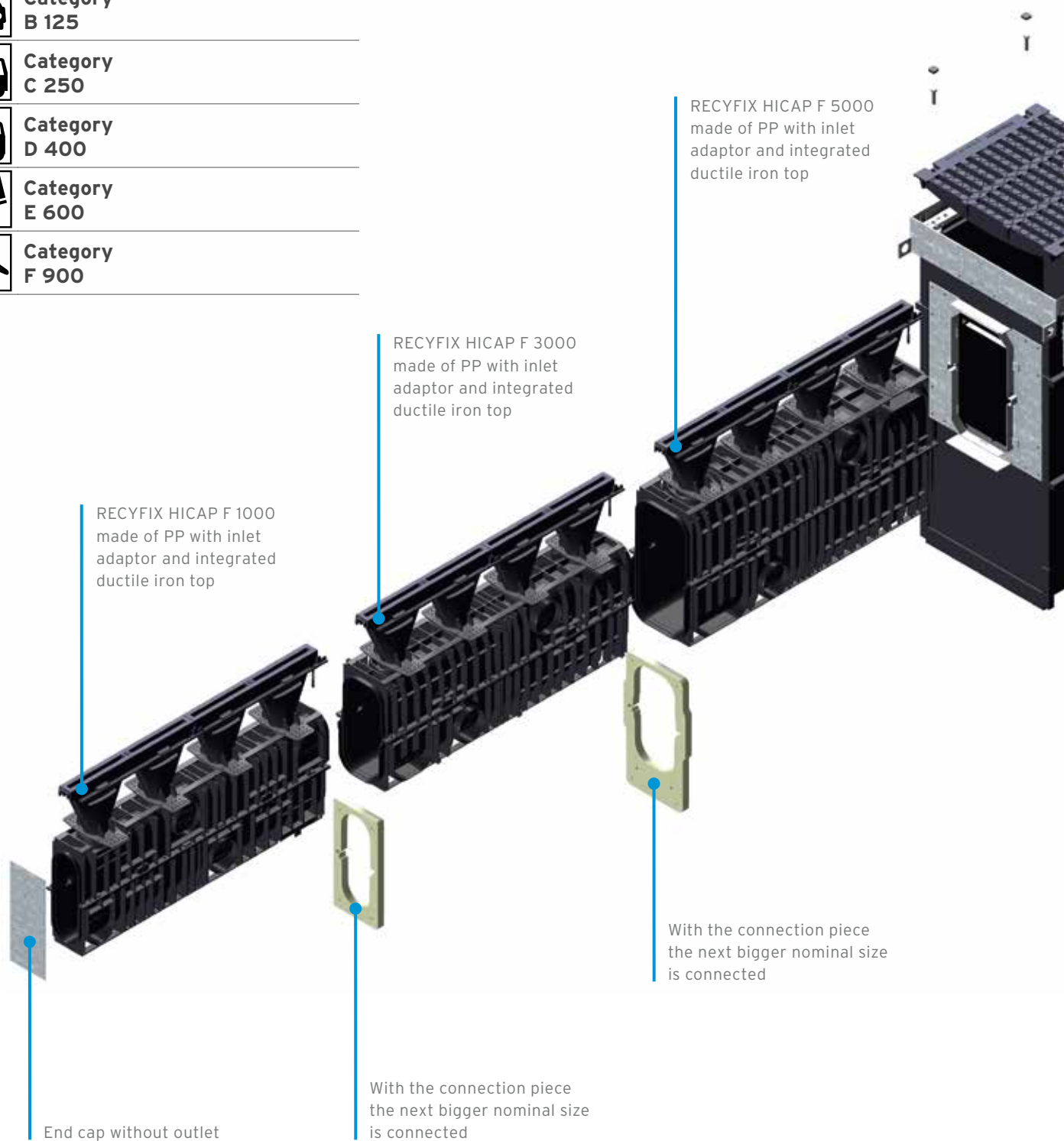
Category
D 400



Category
E 600



Category
F 900



RECYFIX HICAP F 1000
made of PP with inlet
adaptor and integrated
ductile iron top

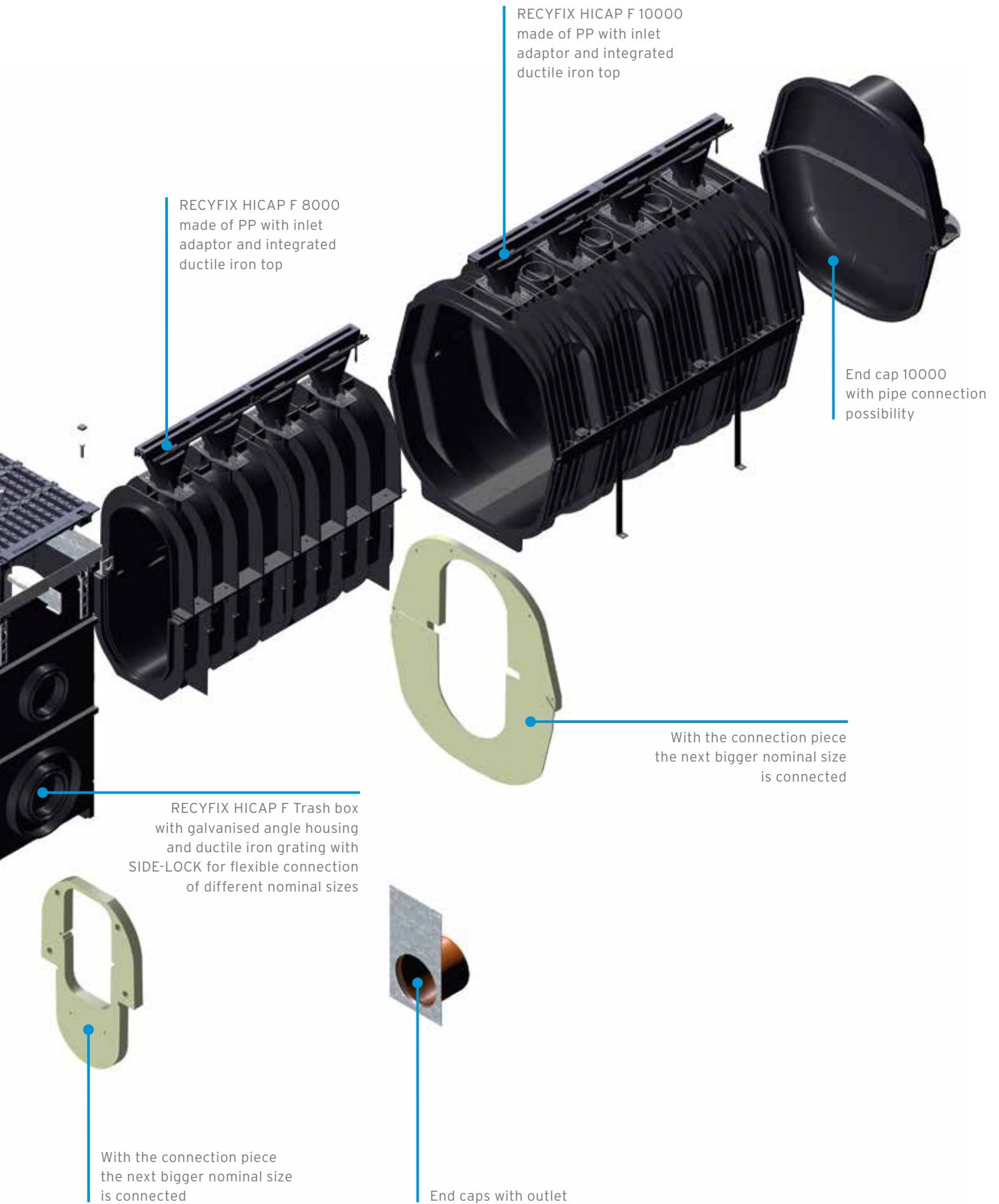
RECYFIX HICAP F 3000
made of PP with inlet
adaptor and integrated
ductile iron top

RECYFIX HICAP F 5000
made of PP with inlet
adaptor and integrated
ductile iron top

End cap without outlet

With the connection piece
the next bigger nominal size
is connected

With the connection piece
the next bigger nominal size
is connected



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

FASERFIX® SUPER

FASERFIX® KS

RECYFIX® PLUS X

RECYFIX® NC

RECYFIX® MONOTEC

RECYFIX® HICAP®

FASERFIX® POINT

