

CIVILS

LANDSCAPING

AQUA

SPORT



ASIA Edition 2020

HAURATON

Surface drainage systems



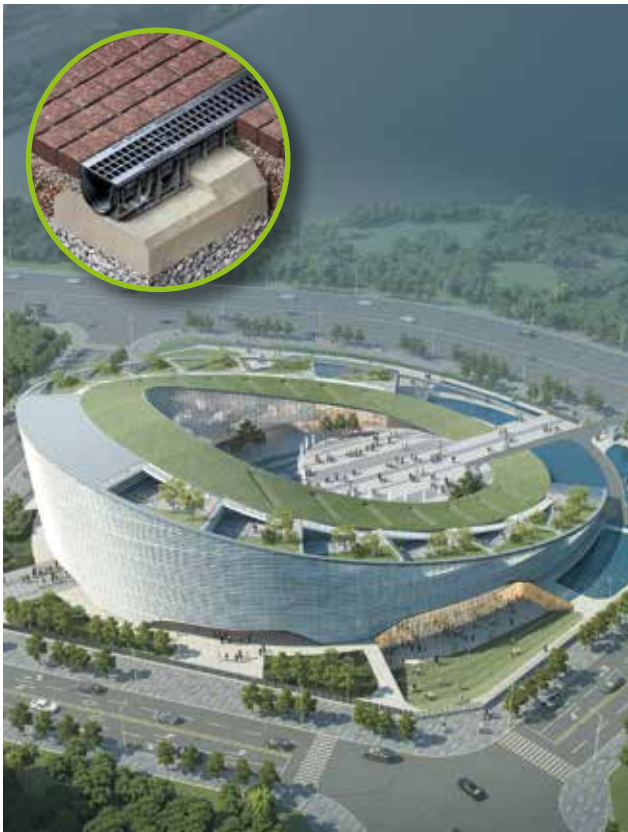
HAURATON projects...



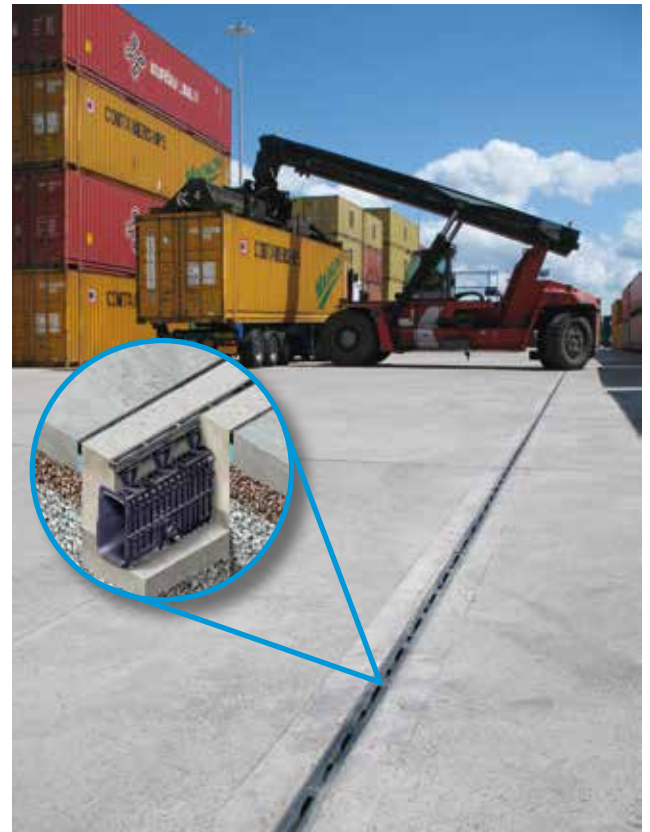
Yas Marina Circuit in Abu Dhabi, United Arab Emirates



Data Ran Merdeka in Kuala Lumpur, Malaysia



Viettel Telecommunication Headquarter Hanoi, Vietnam



Pasir Gudang Port, Malaysia



HAURATON surface drainage channel



About HAURATON

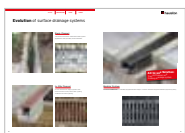
4



RECYFIX PRO

Corrosion-free linear drainage for private and public areas.

22



Evolution of surface drainage systems

8



RECYFIX STANDARD

Linear drainage channels for public and commercial areas.

28



Your benefits with RECYFIX Channels

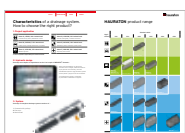
12



SLOTTED CHANNELS

Slotted channels for design-sensitive applications.

34



Basics for HAURATON surface drainage channels

14



RECYFIX NC

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

40



Grating designs

18



Installation

It's running well during the installation.

46



Hydraulic

20



Additional products

48

A family owned company in the third generation



Karl Hauger
1st generation

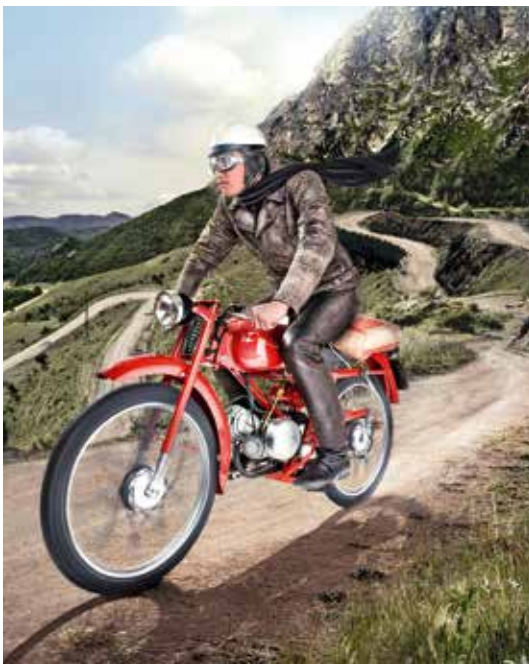


Fabian Reuter
2nd generation



Marcus Reuter
3rd generation

With a pioneering spirit to new concrete



days, Karl Hauger purchased a well-used Moto Guzzi Cardellino. Loaded with 25 kg cement, in 3 days he travelled back to Rastatt over the Gotthard Pass.

It was in the year of 1963. Seven years after setting up the company, HAURATON founder Karl Hauger learnt of a new, Italian cement with fantastic properties. This cement should permit the concrete to be reinforced with fibres and to achieve hitherto unknown levels of strength. On an impulse, he jumped into his company car, a DKW Master Class, to buy a sample of the new cement in Livorno for trials. Unfortunately, the DKW could not withstand the strenuous trip to Italy and packed in working with major engine damage. There was no garage in Italy able to repair the DKW. And so, with the available cash he had, 320 marks, as the currency was in those



Today the original Moto Guzzi found a place in the Conference room Alte Schlosserei.

HAURATON in Rastatt and Ötigheim



Main office in Rastatt

Year of construction: 1956

Extensions/alterations: 1992/2013

Area: 4,590 m² in total



Visitor centre and offices in Rastatt

Year of construction: 1921

Extensions/alterations: 2011

Area: 1.680 m² in total



Production and logistics in Ötigheim

Year of construction: 2008

Area: 116.000 m² in total

From the Black Forest to the world



Welcome to one of the worldwide leaders in drainage

Locations and partners all over the world

Subsidiaries




 Bulgaria	 Poland
 Germany	 Romania
 France	 Russia
 United Kingdom	 Slovakia
 Italy	 Slovenia
 Lithuania	 Hungary
 Netherlands	 Croatia
 Austria	

Exclusive Distributors



 Belgium	 Portugal
 Denmark	 Sweden
 Estonia	 Serbia
 Finland	 Spain
 Greece	 Tenerife
 Ireland	 Czech Republic
 Iceland	 Ukraine
 Latvia	 Belarus






















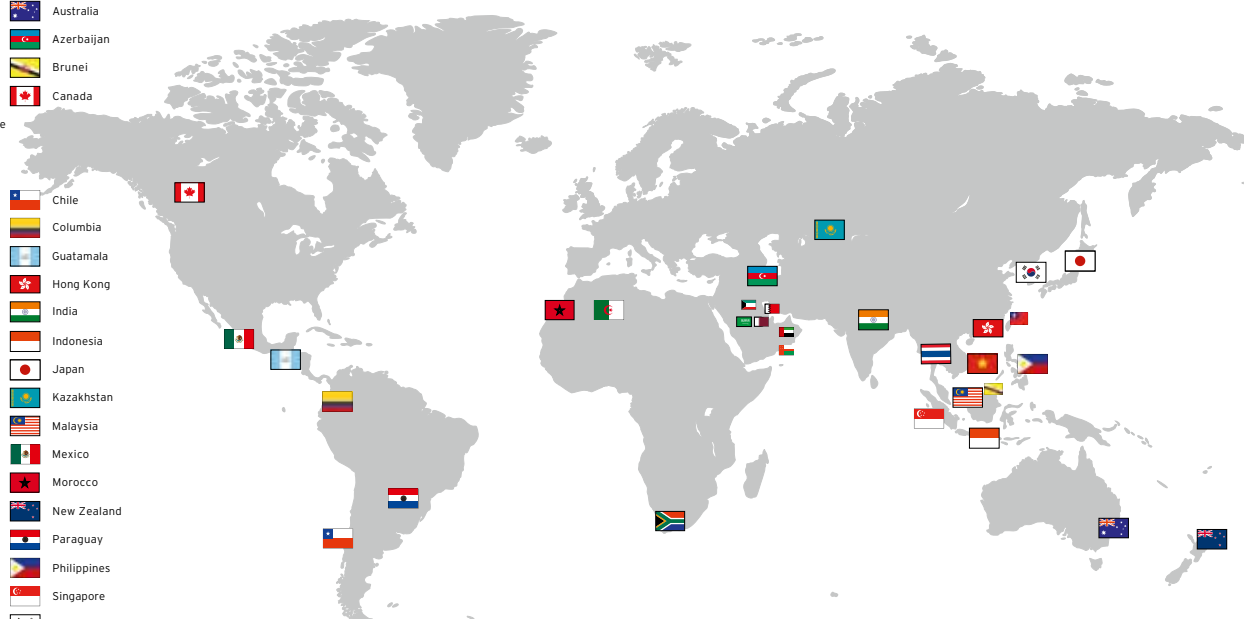
Subsidiaries

 Bahrain
 Kuwait
 Oman
 Qatar
 Saudi Arabia
 United Arab Emirates

Exclusive Distributors

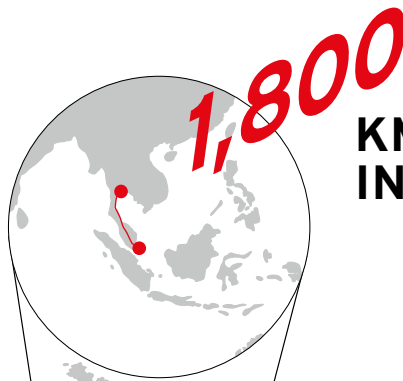
 Algeria
 Australia
 Azerbaijan
 Brunei
 Canada

 Chile
 Colombia
 Guatemala
 Hong Kong
 India
 Indonesia
 Japan
 Kazakhstan
 Malaysia
 Mexico
 Morocco
 New Zealand
 Paraguay
 Philippines
 Singapore
 South Korea
 South Africa
 Taiwan
 Thailand
 Vietnam



Some statistics from
the HAURATON world

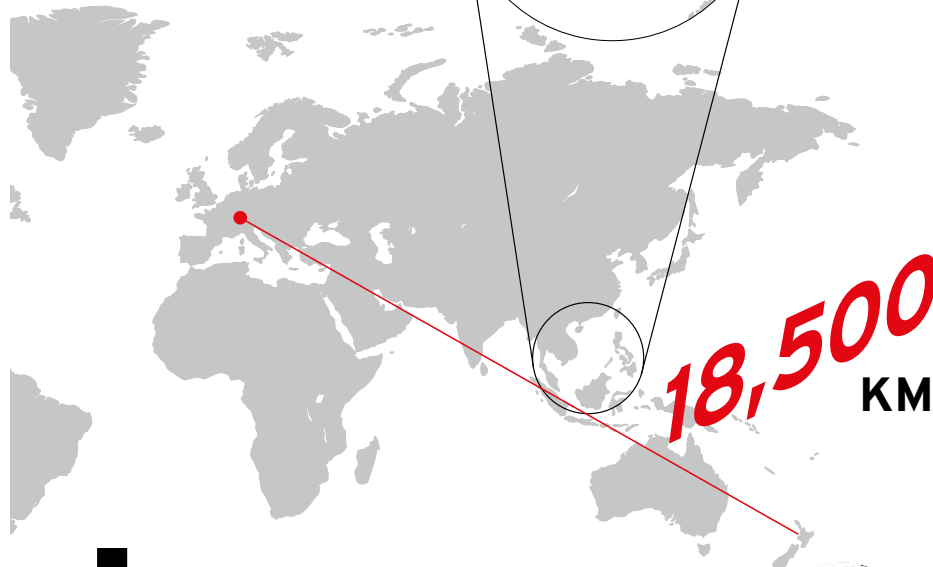
FOUNDED
IN **1956**



**KM OF CHANNELS
INSTALLED IN 2018**

This corresponds to the distance
from Bangkok to Singapore

350
EMPLOYEES
WORLDWIDE



KM LINEAR DISTANCE

18,500 KM as the crow flies to our most
faraway project in New Zealand

Export to

73 COUNTRIES
WORLDWIDE

hauraton

Your contact at **HAURATON**



from left to right: Chareen Chok, Daniel Schirm, Kathrin Sarnes, Dirk Neumaier, Isabel Werner, Rebecca Weiler, Michael Unger, Liesa Ziesemer, Javier Enjuto Monje, Rainer Schaible, Wanli Zhao.

Evolution of surface drainage systems



Basic Channel

The world's first known urban waste water system appeared in Asia (LOTHAL) around 2600 BC.



In-Situ Channel

In-Situ Channel are simple systems cast from concrete on site, with a basic grating installed across the opening.



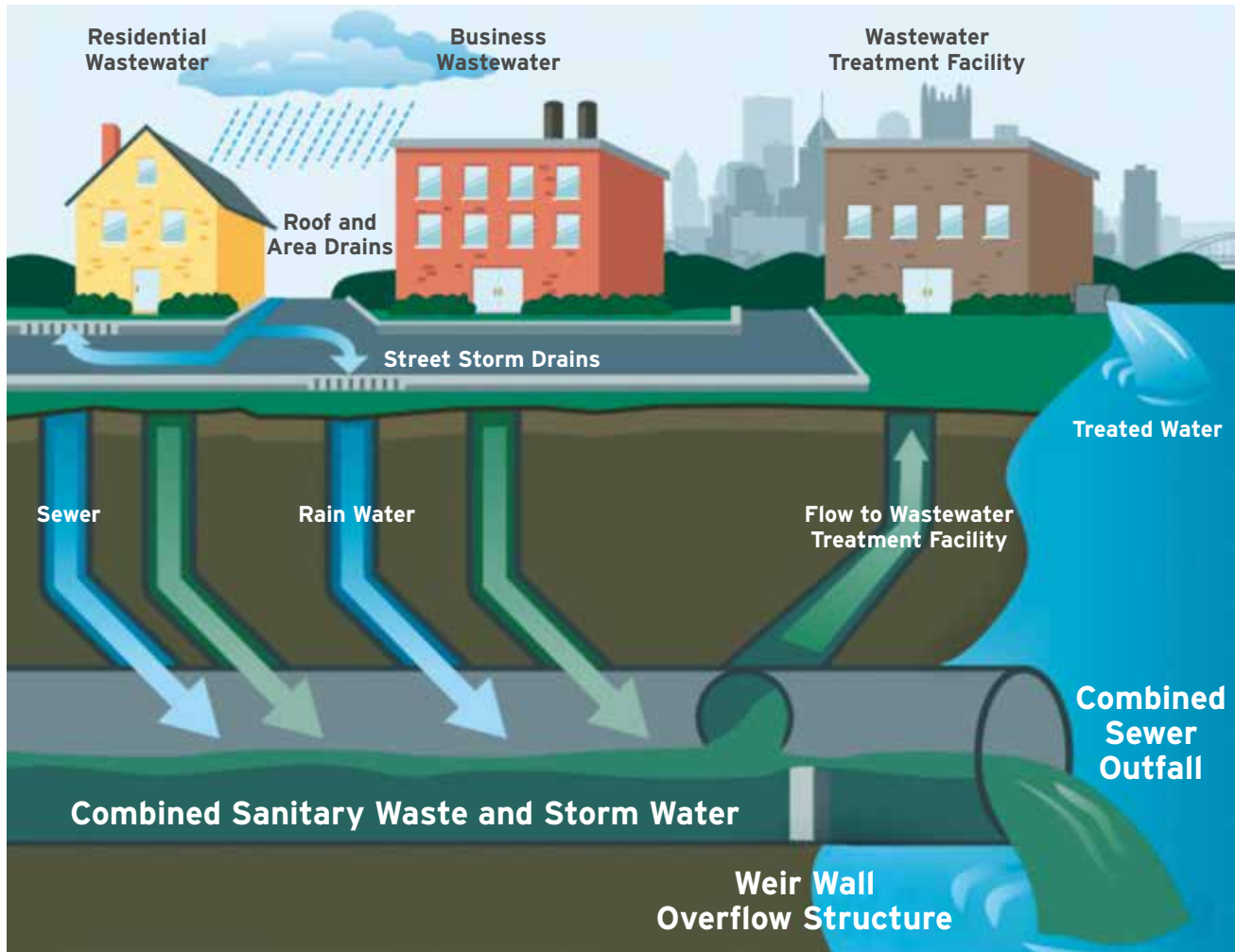


Modern System

RECYFIX - THE ALL-IN-ONE SOLUTION: A complete, modular linear drainage system to collect surface rainwater and stormwater with a prefabricated product: A channel (trench/U-drain) and grating fixed with a locking system.



DO IT WRONG: Combined Sewer System or open sewage/drainage



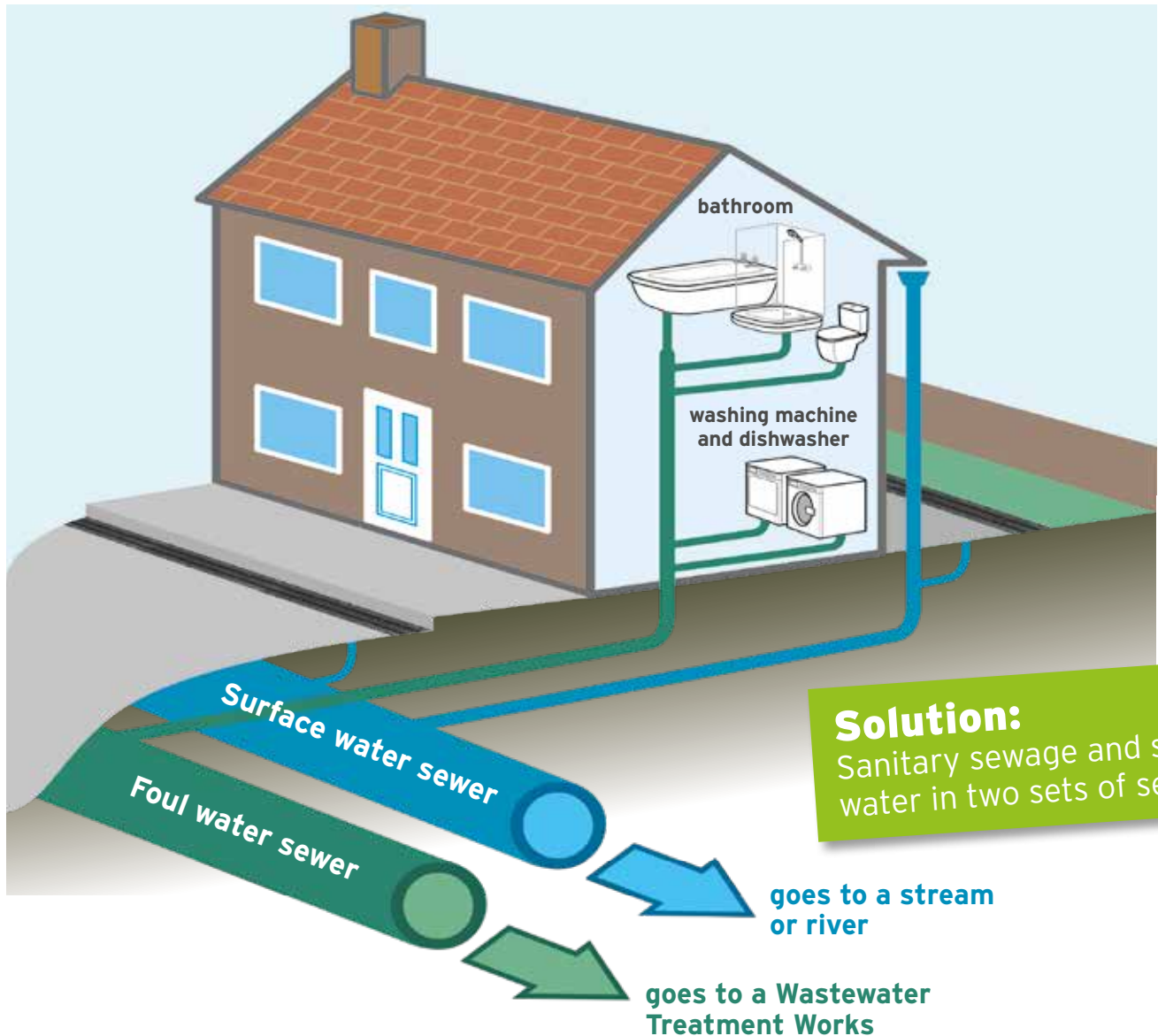
Everything flows into the storm drain:

- Roof runoff
- Lawn runoff
- fertilizer, motor oil, pet waste, grease,
- Street/surface runoff
- Sanitary waste water
-

In case of rainstorms this leads to:

- ➔ Water pollution
- ➔ Toxic-sewage runoff
- ➔ Flood
- ➔

DO IT RIGHT: Separate Sewage/ Safing Water



Drainage solutions from HAURATON

Linear drainage:
RECYFIX PRO



Seperators:
AQUAFIX 10 PE



Infiltration:
DRAINFIX TWIN



Filter substratum channel:
DRAINFIX CLEAN



YOUR BENEFITS WITH **RECYFIX** CHANNELS

compared to local in-situ solutions

ANGLE HOUSING

- PP frame 20 x 20 mm acc. to DIN 1433 for additional flexibility and protection
- 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 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

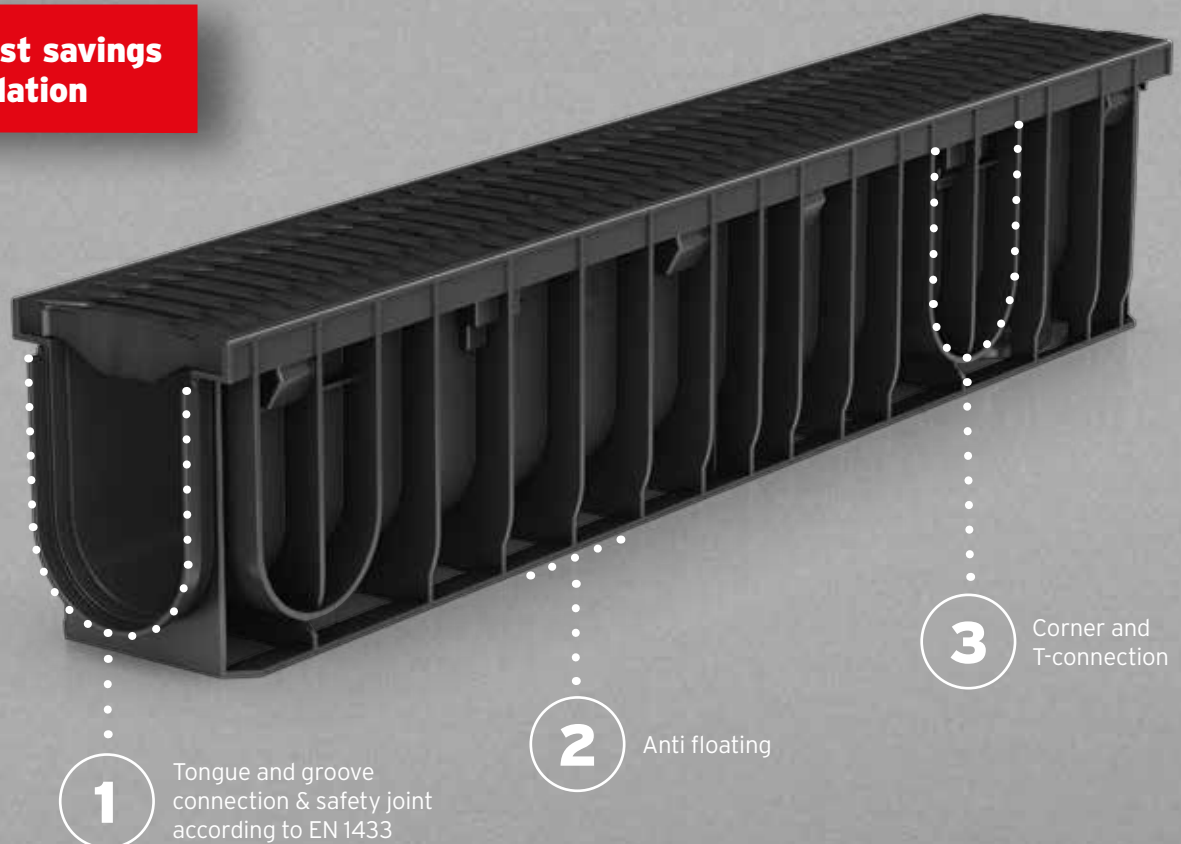
- channel and grating = one part
- no spare parts
- easy handling in stock and on construction site
- cost-efficient transport

= MORE PROFIT



All-in-one Solution:
Trench/Channel and Grating
Drainage system

**50 % cost savings
on installation**



100 % corrosion-free

Characteristics of a drainage system. How to choose the right product?

1. Project application



Class A, 15 kN, 0.9 t total weight

Private areas, Parks, Pedestrian zones



Class B, 125 kN, 7.5 t total weight

Public areas, Garage entrances, Car parks



Class C, 250 kN, 15 t total weight

Market squares



Class D, 400 kN, 24 t total weight

Streets (alongside), Commercial areas



Class E, 600 kN, 36 t total weight

Industrial yards, Container yards, Ports



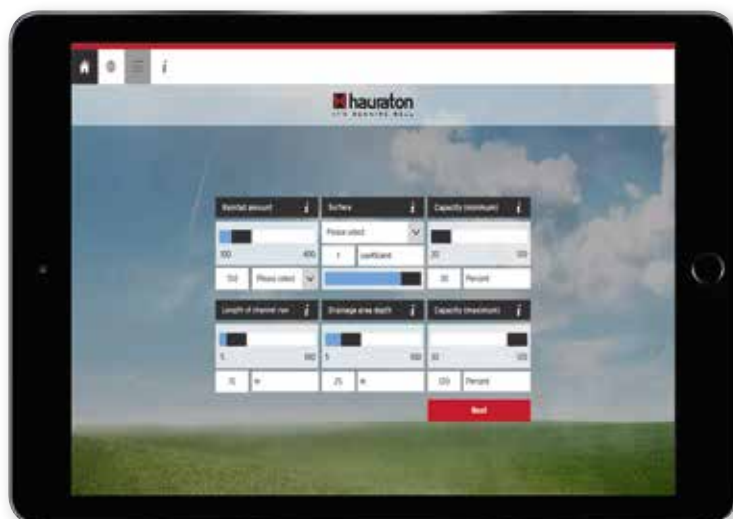
Class F, 900 kN, 54 t total weight

Airports, Race tracks

In case of any doubt a higher loading class should be chosen.

2. Hydraulic design

Drainage area depths in dependence on the line length of **RECYFIX** channels



With a few information on area to be drained such as length, width and surface layer plus the rain intensity, with the HAURATON Hydraulic-App the best system from hydraulic purpose can be calculated.

hauraton.com/en/hydraulic-app.php

A professional hydraulic calculation by our technical support team is available on request.

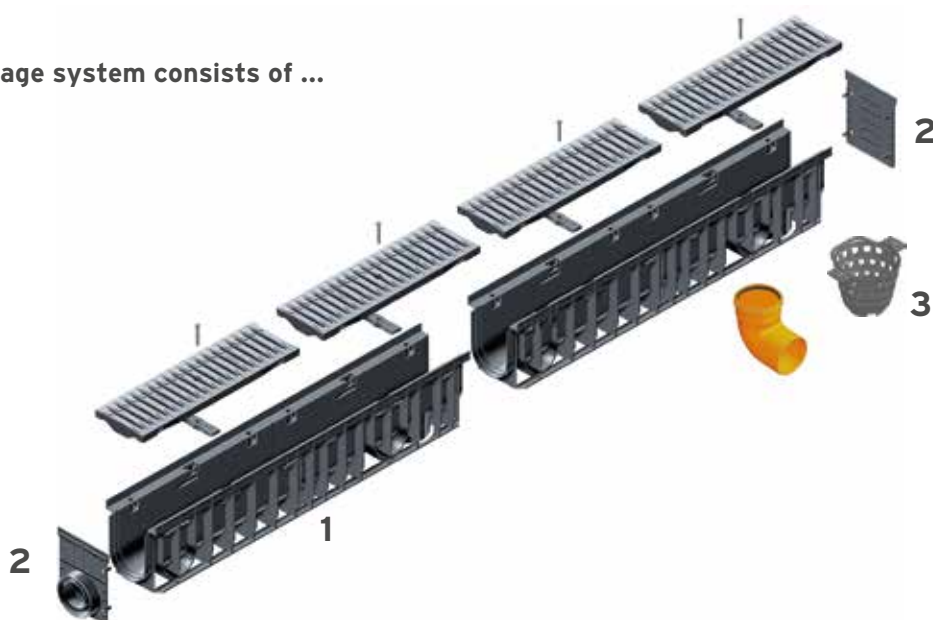
Our new web-based application 'Design- Software' for industry professionals is user-friendly, flexible and free!

<https://hydraulicdesign.hauraton.com>




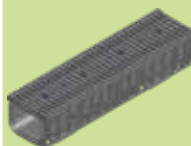
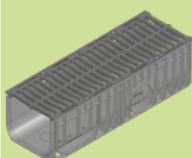
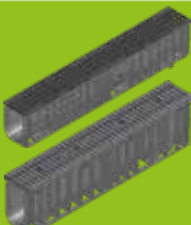
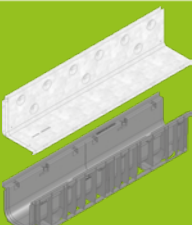
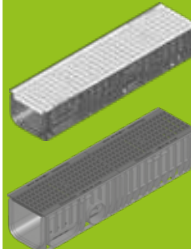
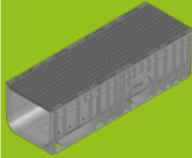

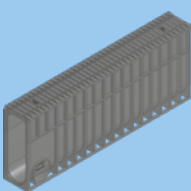
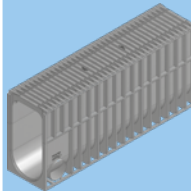
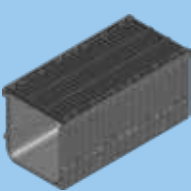

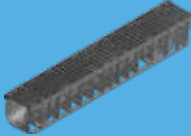
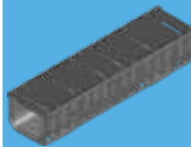
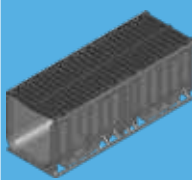

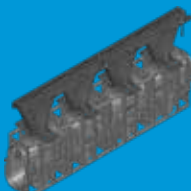
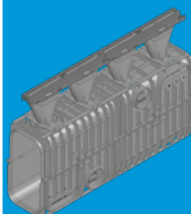
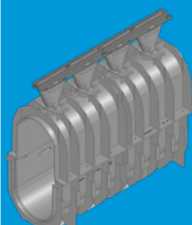

3. System

Drainage A complete drainage system consists of ...

- 1 Channels with gratings
- 2 End caps
- 3 Mud bucket



HAURATON product range

Applications	Nominal width					
	100	150	200	300	400	680
 	 RECYFIX PRO		 RECYFIX PRO	 RECYFIX STANDARD		
	 RECYFIX STANDARD / RECYFIX PRO / Slotted Channel	 SLOTTED CHANNEL	 RECYFIX STANDARD	 RECYFIX STANDARD		
	 RECYFIX MONOTEC		 RECYFIX MONOTEC		 RECYFIX NC	
	 RECYFIX NC		 RECYFIX NC	 RECYFIX NC		
	 RECYFIX HICAP F		 RECYFIX HICAP F	 RECYFIX HICAP F	 RECYFIX HICAP F	

Further details on following product pages. **RECYFIX HICAP F** on request for project business.

Project applications for drainage systems



Highways and
toll stations



Parks and
gardens



Commercial
areas



City centres



Industrial
areas



Ports



Petrol
stations



Residential
areas



Sports
facilities



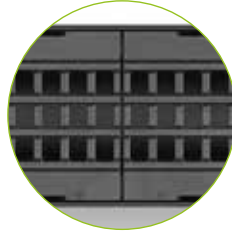
Airports

HAURATON grating designs for landscaping applications

RECYFIX PRO 100



Composite material

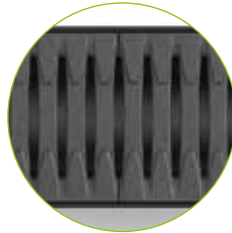


GUGI-Mesh gratings, composite material

Mesh width: 15 x 25 mm



Composite material

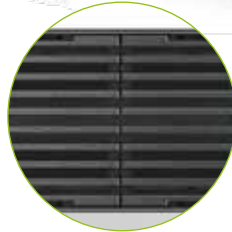


FIBRETEC Slotted gratings, in Black

Bar distance: 9 mm



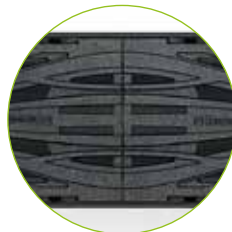
On request also in colours available



Longitudinal ductile iron gratings, KTL*

Bar distance: 9 mm

On request



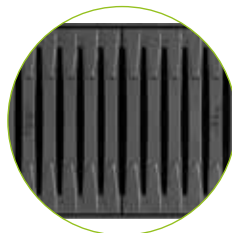
Ductile iron grating, METROPOLIS, KTL*

On request

RECYFIX PRO 200



Composite material



FIBRETEC Slotted gratings, composite material

Bar distance: 9 mm

RECYFIX PRO 200



Longitudinal ductile iron gratings, KTL*

Bar distance: 9 mm

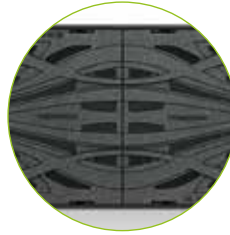
On request



Ductile iron gratings, G-TEC, KTL*

Bar distance: 2 x 85 x 9 mm

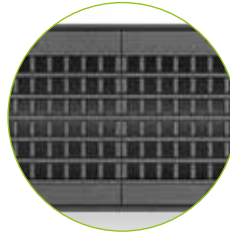
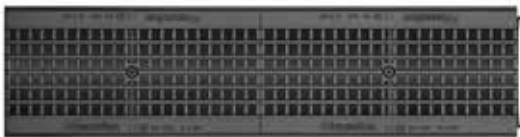
On request



Ductile iron grating, METROPOLIS, KTL*

On request

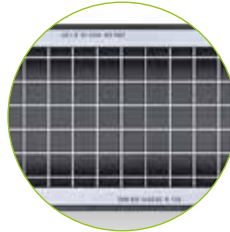
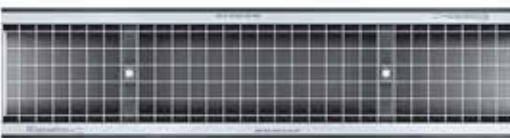
RECYFIX STANDARD 200



GUGI ductile iron gratings

Mesh width: 15 x 25 mm

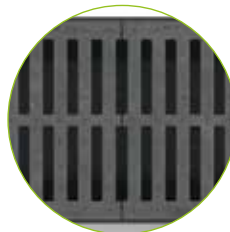
NW 100 and 200 come in the same design



Mesh galvanised gratings

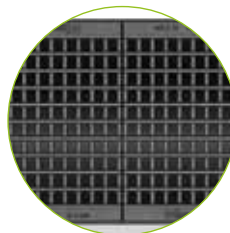
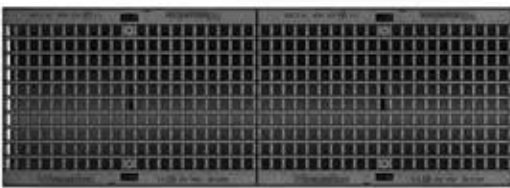
Mesh width: 30 x 30 mm

RECYFIX STANDARD 300



Ductile iron gratings

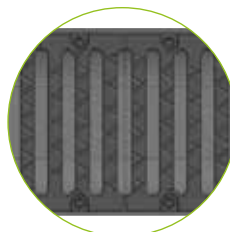
Slot width: 2 x 127 x 18 mm



GUGI ductile iron gratings

Mesh width: 15 x 25 mm

RECYFIX NC 200



Ductile iron slotted gratings

Slot width: 18 mm

NW 100, 300 and 400 come in the same design

Top hydraulic performance without slope!

The exemplary hydraulic performance test on the hydraulic capacity of two channel runs (4 meter of **RECYFIX** 150 Type 01), one with and one without built-in fall, clearly shows, that at the end the hydraulic performance is almost the same.

Until the channels are completely emptied of water, it takes 1:17 minutes without built-in fall compared to 1:13 minutes with 0.5 % built-in fall.



As a result, although **RECYFIX** channels do not have a built-in fall, **RECYFIX** channels fulfill all hydraulic demands and also ensure that under all applications storm water flows into the channel.



See here the hydraulic performance test Video.

HAURATON channels have optimized hydraulics and don't require slope.

Channel shape

Tests and hydraulic calculations have shown that channels with a U-shaped cross section have a better velocity at the end of the channel run and a higher cleaning power compared with a V-shaped or an In-Situ cross section.



Competitor



In-Situ



HAURATON

**30% more
draining capacity**

Results

- U-shaped channels have up to a 30 % increased draining capacity compared to V-shaped channels.
- In a U-shaped channel the water has a larger contact area with the soiling.
That's why this channel cleans itself more efficiently.

Design Software

Reliable Design

Our 'in-house' hydraulic design software has been used successfully by HAURATON technical personnel for over 30 years with total reliability.

User-Friendly, Flexible, Free!

Our new web-based application 'DesignSoftware' provides industry professionals with quick, simple hydraulic analysis, channel sizing, project design and product specification for HAURATON's range of surface drainage systems (civils, commercial, landscape) whilst working on their own desk-top computers, laptops and tablets.



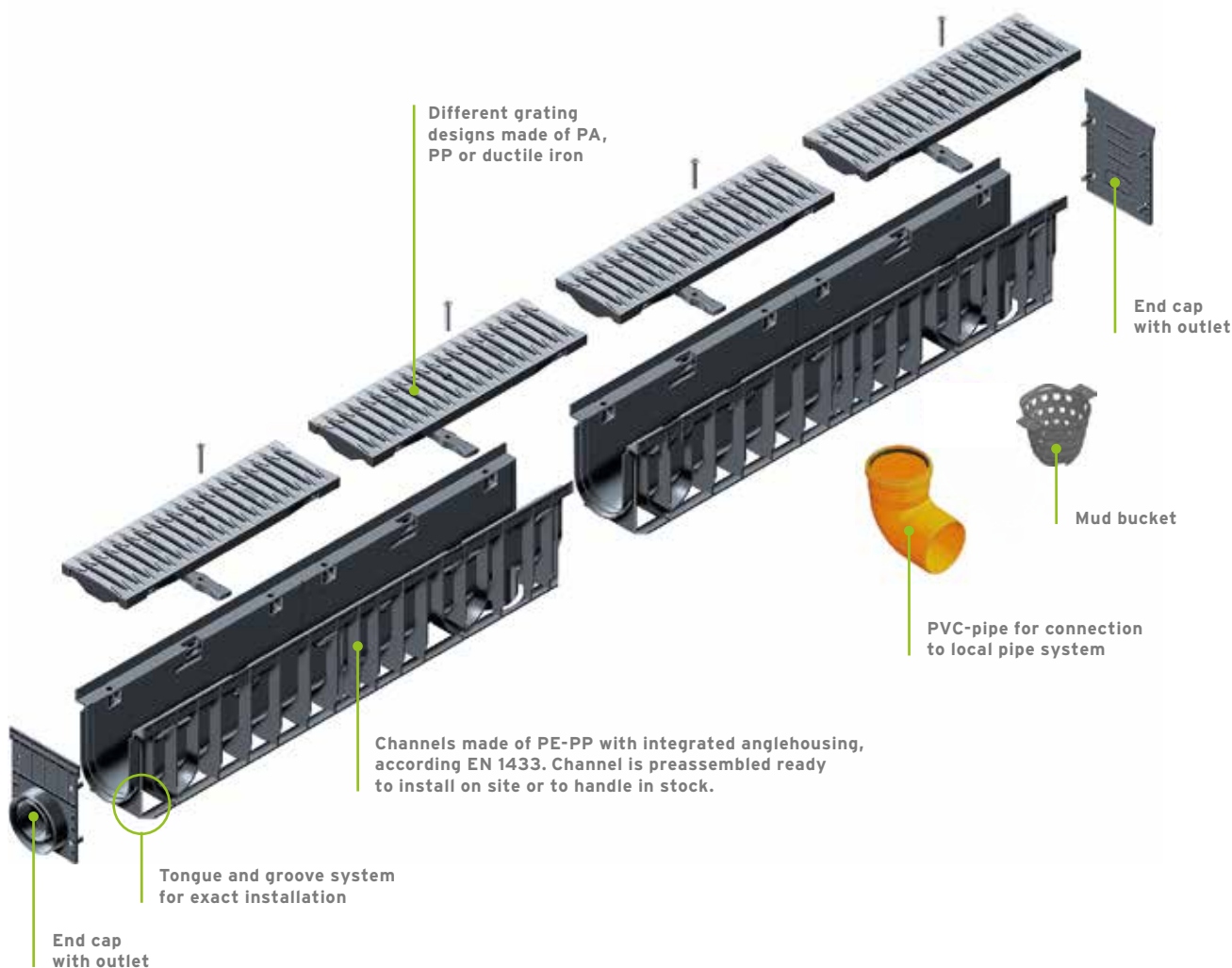
Or on our website at
www.hauraton.com/hydraulik-software

RECYFIX PRO

Corrosion-free drainage system for private and public areas.



- Market squares
- Public areas
- Private areas





Grace Hill, High-rise, Seoul, South Korea



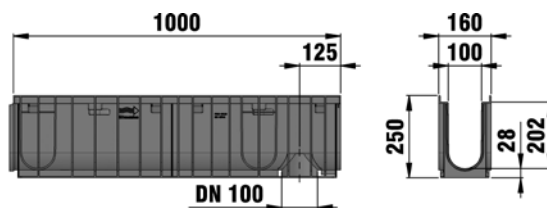
Ambuja-Park, Kolkatta, India

RECYFIX®PRO 100

Combi article

RECYFIX®PRO 100, class B 125

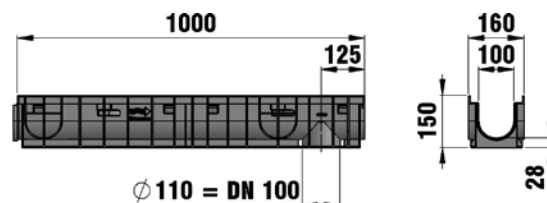
Type 020 with GUGI-Grating
made of PA-GF, MW 15/25,
black, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ⁺	Intake cross-sect. cm ⁺ /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 010 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	200	142	444	4,7	47040
Type 020 with GUGI-Grating made of PA-GF, MW 15/25, black, locked	1000	160	250	192	444	5,5	48623
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

RECYFIX®PRO 100, class C 250

Type 01 with FIBRETEC slotted grating,
SW 9, black



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ⁺	Intake cross-sect. cm ⁺ /m	Weight kg	Item-No. galvani- sed
Type 01 with FIBRETEC slotted grating, SW 9, black	1000	160	150	92	372	4,6	47055
Type 010 with FIBRETEC slotted grating, SW 9, black	1000	160	200	142	372	4,9	47060
Type 020 with FIBRETEC slotted grating, SW 9, black, locked	1000	160	250	192	372	5,8	48625
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

RECYFIX®PRO 100

Accessories

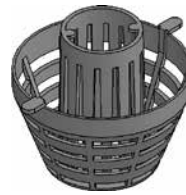
End caps and further accessories



End cap closed for type 01



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



Mud bucket vertical DN 100, black

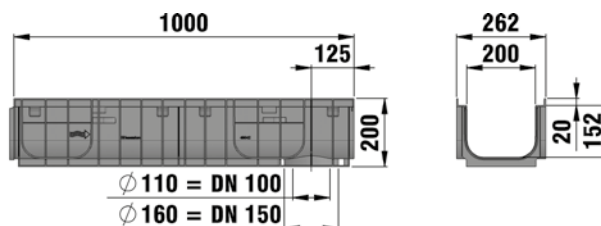
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type 01	-	160	124	-	48681
End cap closed for type 010	-	160	176	0,1	47082
End cap made of PP with outlet DN 100 for type 010	-	160	201	0,1	47093
End cap made of PP, type 020	-	160	-	0,1	48683
End cap made of PP with outlet DN 100, type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

Accessories

End caps and further accessories



End cap combined made of PP
closed / with outlet DN 100,
Type 010



Mud bucket DN 150

	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
Mud bucket vertical DN 100, black	100	100	85	-	40293
Mud bucket DN 150	-	-	180	0,6	845

RECYFIX® PRO 200



Puteri Harbour, Malaysia



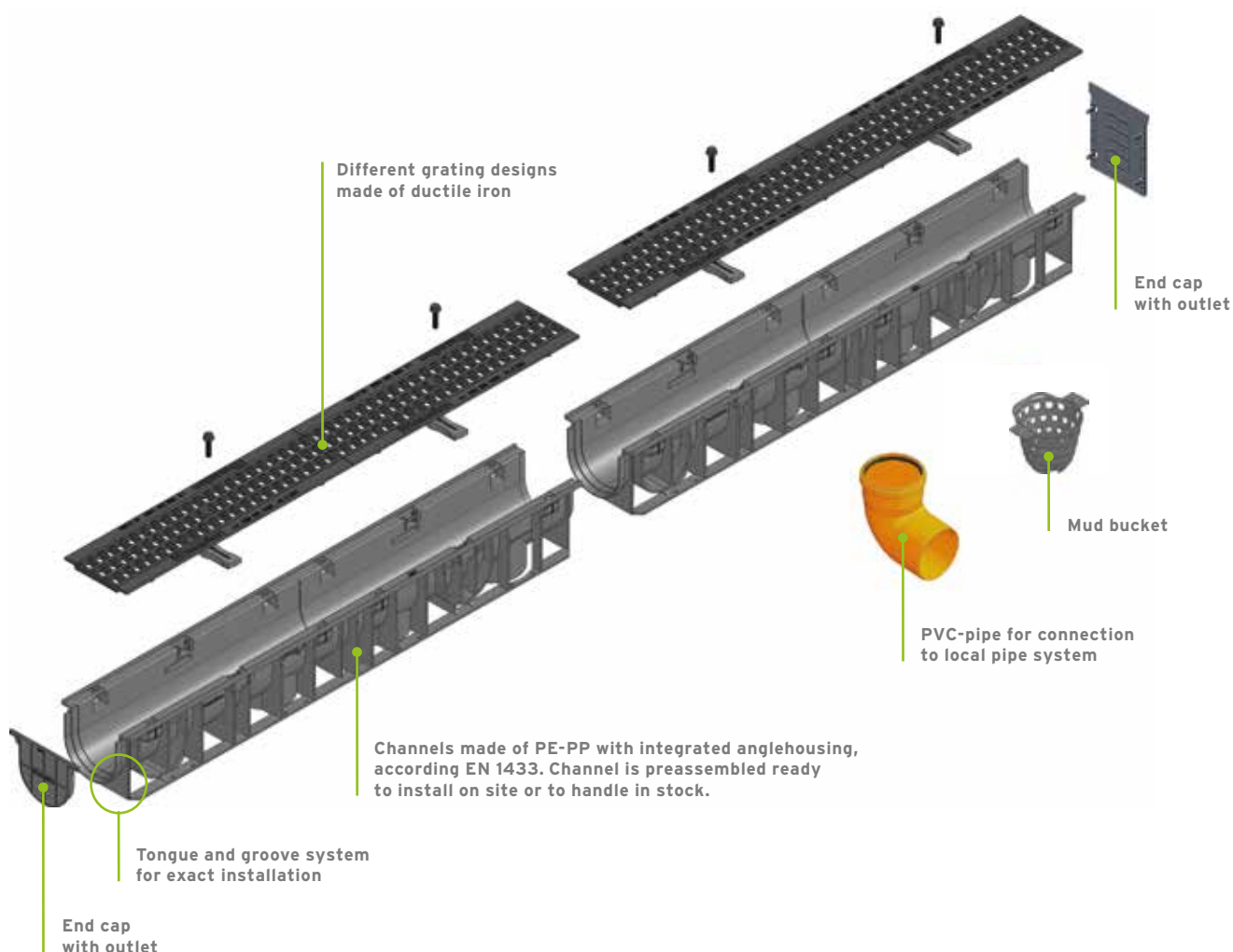
Residential House, Gwangju, South Korea

RECYFIX STANDARD

Linear drainage channels for public and commercial area.



- Market squares
- Public areas
- Private areas





German Embassy, Hanoi, Vietnam



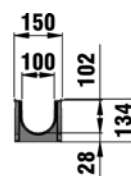
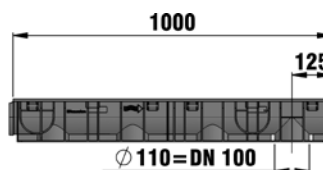
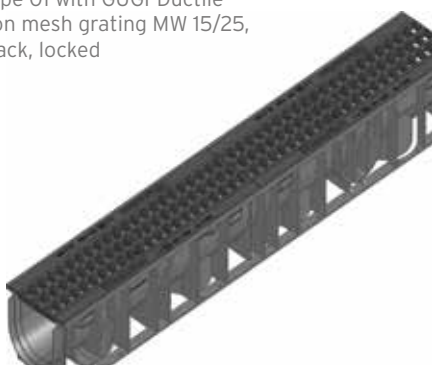
Condominium Suites Project Parque Norm Marque in Bangkok, Thailand

RECYFIX®STANDARD 100

Combi article

RECYFIX®STANDARD 100, class C 250

Type 01 with GUGI-Ductile iron mesh grating 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-Ductile iron mesh grating MW 15/25, black, locked	1000	150	134	92	444	7,1	40234
Type 010 with GUGI-Ductile iron mesh grating MW 15/25, black, locked	1000	150	185	142	444	8,6	40299
Type 60 with GUGI-Ductile iron mesh grating MW 15/25, black, locked*	1000	150	60	35	444	5,4	40239
Type 80 with GUGI-Ductile iron mesh grating MW 15/25, black, locked*	1000	150	80	55	444	5,5	40253

* For frequently used areas we recommend FASERFIX KS Channels shallow (see CIVILS).
Type 60/type 80 with preformed outlet DN 70.

Accessories

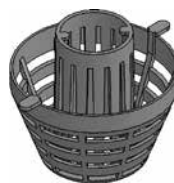
End caps and further accessories



End cap, closed
for type 01



End cap combined made of PP
with outlet DN 100, type 010



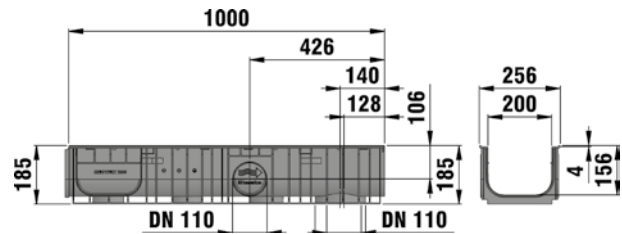
Mud bucket vertical
DN 100, black

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap, closed for type 01	-	150	108	-	48081
End cap closed for type 010	-	150	160	-	40282
End cap combined made of PP with outlet DN 100, type 010	-	148	185	0,1	40283
End cap closed, made of PP, for type 60	-	147	44	-	40284
End cap closed, made of PP, for Type 80	-	147	64	-	40291
Mud bucket vertical DN 100, black	100	100	85	-	40293
Step Fall Adapter for step slope, from type 01 to type 010	-	-	-	0,2	41290

RECYFIX®STANDARD 200

Combi article

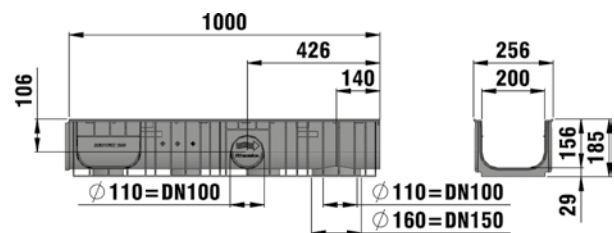
RECYFIX®STANDARD 200, class B 125



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 010 with mesh grating MW 30/30, galvanised, locked	1000	256	185	290	825	15,4	40672

RECYFIX®STANDARD 200, class C 250

Type 010 with GUGI-Ductile iron mesh grating 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 010 with GUGI-Ductile iron mesh grating MW 15/25, black, locked	1000	256	185	290	825	15,4	40665
Type 020 with GUGI-Ductile iron mesh grating MW 15/25, black, locked	1000	256	235	366	825	15,8	40666
Type 100 with GUGI-Ductile iron mesh grating MW 15/25, black, locked	1000	256	100	150	825	14,1	40641

Accessories

End caps and further accessories

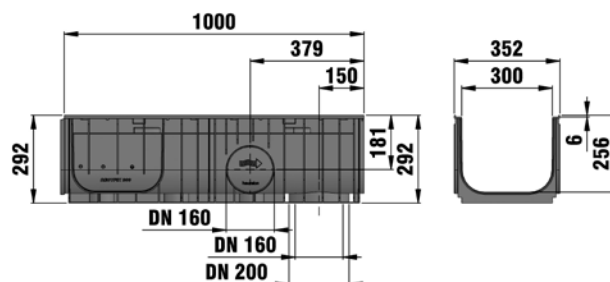
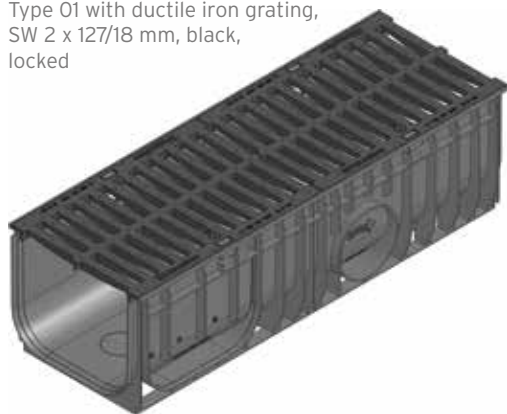
	Length mm	Width mm	Height mm	Weight kg	Item-No. galvani- sed	Item-No. stainless steel
End cap combined made of PP closed / with outlet DN 100, Type 010	-	254	199	0,2	40792	-
End cap closed, Type 01	-	260	275	1,1	12081	12581
End cap closed, type 100	-	262	100	0,1	40690	-
Step Fall Adapter for step slope, from type 010 to type 020	218	200	99	0,4	49590	-
Mud bucket vertical DN 100, black	100	100	85	-	40293	-
Mud bucket DN 150	-	-	180	0,6	845	-

RECYFIX®STANDARD 300

Combi article

RECYFIX®STANDARD 300, class B 125

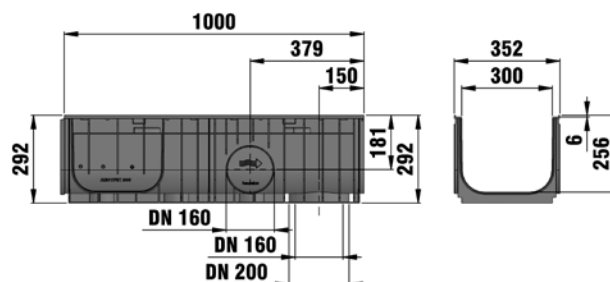
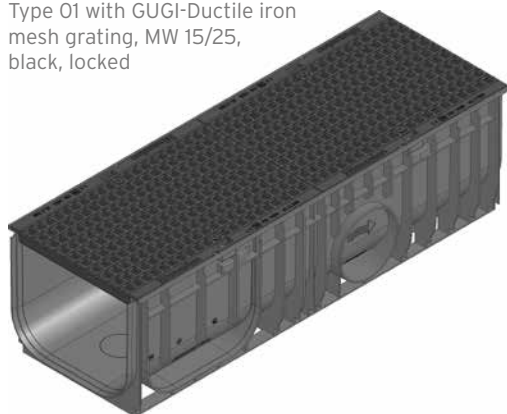
Type O1 with ductile iron grating,
SW 2 x 127/18 mm, black,
locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm±	Intake cross-sect. cm±/m	Weight kg	Item No.
Type O1 with ductile iron grating, SW 2 x 127/18 mm, black, locked	1000	352	292	725	-	22,7	32864

RECYFIX®STANDARD 300, class C 250

Type O1 with GUGI-Ductile iron
mesh grating, MW 15/25,
black, locked



	Length mm	Width mm	Height mm	Drainage cross-sect. cm±	Intake cross-sect. cm±/m	Weight kg	Item No.
Type O1 with GUGI-Ductile iron mesh grating, MW 15/25, black, locked	1000	350	292	725	1385	29,1	40870
Type O10 with GUGI-Ductile iron mesh grating, MW 15/25, black, locked	1000	420	381	857	1385	33,20	40875

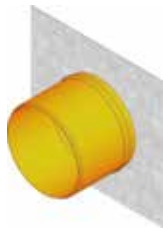
RECYFIX® STANDARD 300

Accessories

End caps and further accessories



End cap closed, galvanised, type 01



End cap with vertical UPVC outlet, galvanised, type 01



Mud bucket DN 150

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, Type 01	-	360	340	1,8	40882
End cap with vertical UPVC outlet, galvanised, Type 01	-	360	340	2,3	40892
Mud bucket DN 150	-	-	180	0,6	845

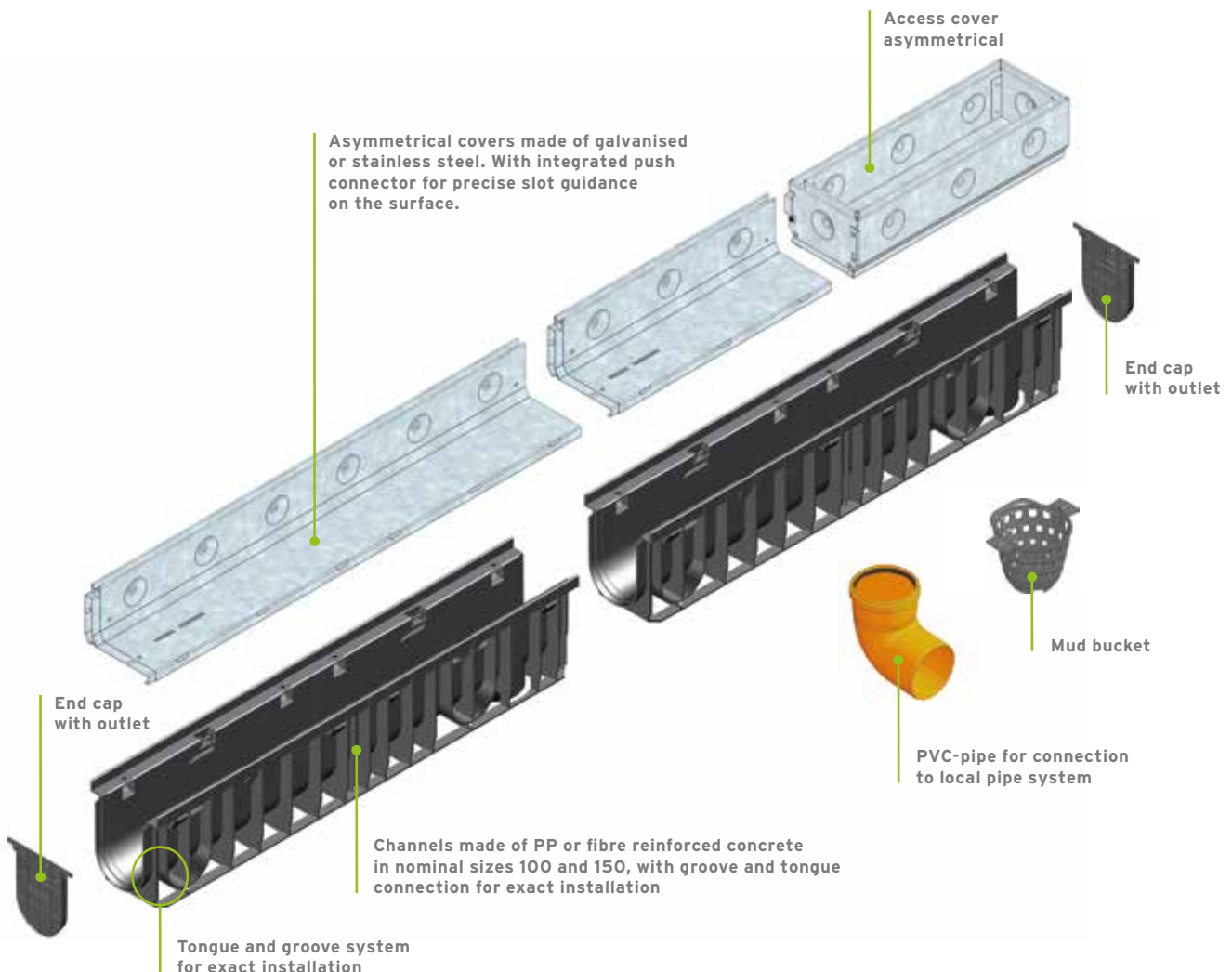


SLOTTED CHANNELS

SLOTTED CHANNELS for design-sensitive applications.



- Market squares
- Public areas
- Private areas





Dubai World Trade Centre, Dubai, United Arab Emirates



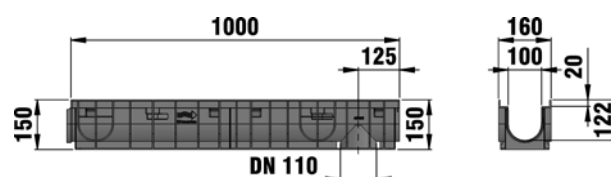
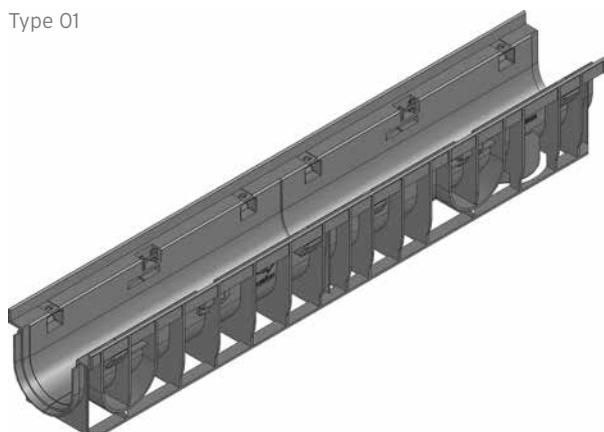
Tycoon Project in Bangkok, Thailand

SLOTTED CHANNEL 100

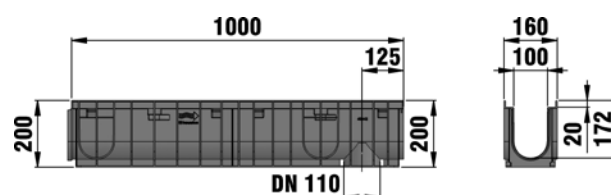
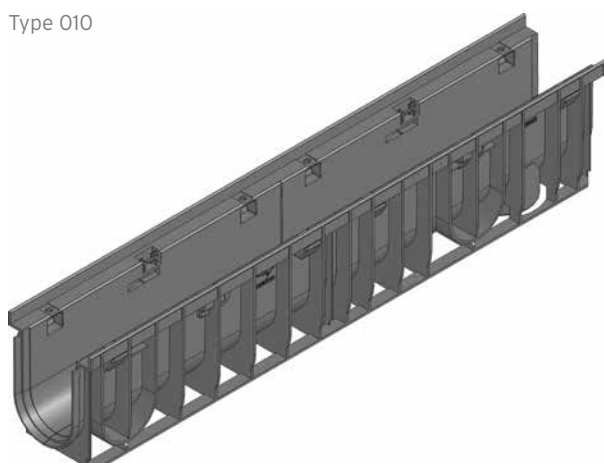
Channels

RECYFIX®PRO 100

Type 01



Type 010



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Weight kg	Item No.
Type 01	1000	160	150	92	2,2	48600
Type 010	1000	160	200	142	2,7	48642
Type 020	1000	160	250	192	3,6	48620

SLOTTED CHANNEL 100

Gratings

Slotted Covers 100, neck height 160, class C 250



Asymmetrical,
SW 12 mm



Asymmetrical,
SW 12 mm



Access cover asymmetrical,
SW 12 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm ² /m	Weight kg	Item-No. galvani- sed	Item-No. stainless steel
Asymmetrical, SW 12 mm	1000	156	181	-	7,2	32249	32250
Asymmetrical, SW 12 mm	500	156	181	-	3,8	32279	32280
Access cover asymmetrical, SW 12 mm	500	163	181	-	6,9	32305	32306

Bigger nominal sizes and individual neck heights as tailor-made production possible for more than 30 m.
The quality of stainless steel material corresponds to CNS 1.4301.

Accessories

RECYFIX®PRO 100 channels



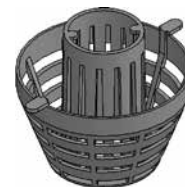
End cap closed
for type O1



End cap closed
for type O10



End cap made of PP,
type O20



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

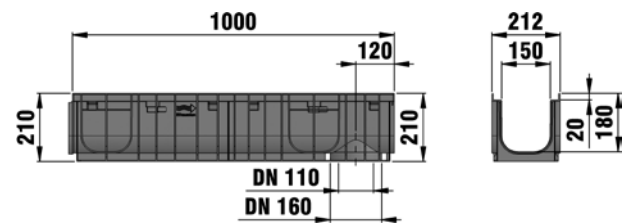
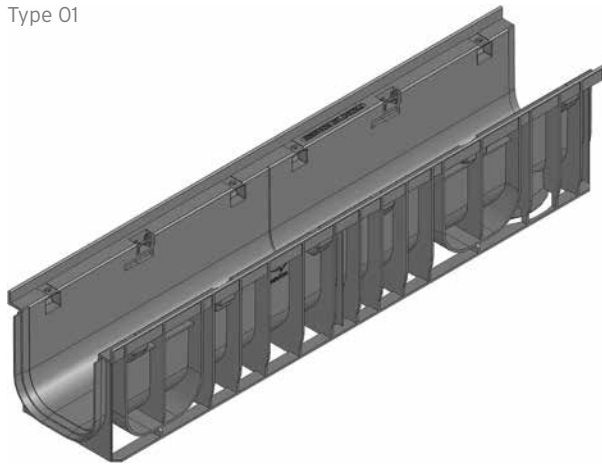
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type O1	-	160	124	-	48681
End cap closed for type O10	-	160	176	0,1	47082
End cap made of PP, type O20	-	160	250	0,1	48683
Mud bucket vertical made of modified composite for outlet DN/OD 110, black	100	100	85	0,0	40293

SLOTTED CHANNEL 150

Channels

RECYFIX®PRO 150

Type 01



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Weight kg	Item No.
Type 01	1000	212	210	230	3,2	47100

SLOTTED CHANNEL 150

Gratings

Slotted Covers 150, neck height 160, class C 250



Asymmetrical, SW 12 mm



Asymmetrical, SW 12 mm



Access cover asymmetrical,
SW 12 mm

	Length mm	Width mm	Height mm	Intake cross-sect. cm ² /m	Weight kg	Item-No. galvani- sed	Item-No. stainless steel
Asymmetrical, SW 12 mm	1000	206	181	-	2,2	32400	32401
Asymmetrical, SW 12 mm	500	206	181	-	3,8	32404	32405
Access cover asymmetrical, SW 12 mm	500	-	-	-	8,0	32731	32732

Bigger nominal sizes and individual neck heights as tailor-made production possible for more than 30 m.
The quality of stainless steel material corresponds to CNS 1.4301.

Accessories

RECYFIX®PRO 150 channels



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



Mud bucket DN 150

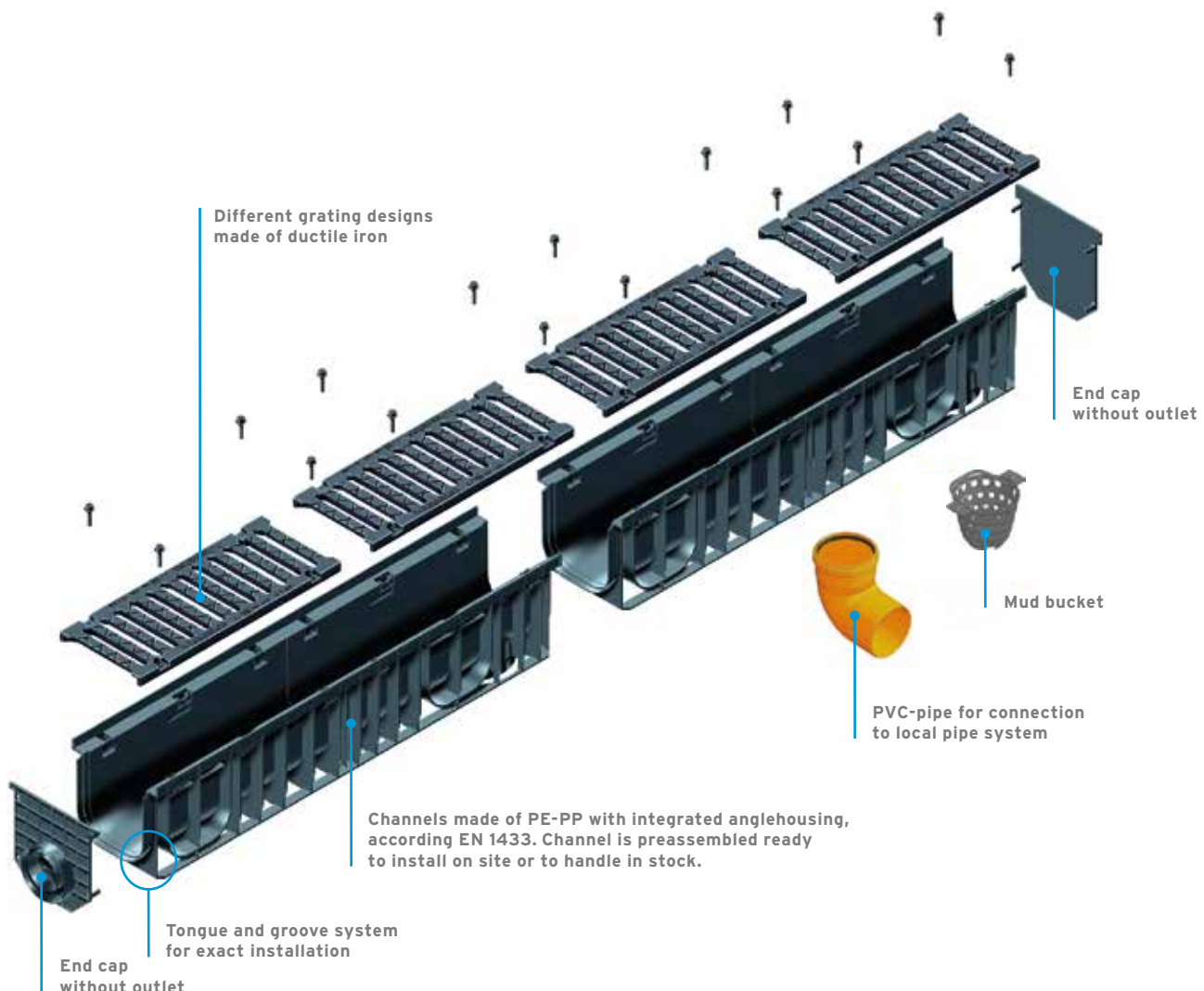
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined, PP with outlet DN/OD 75/110 for type 01	-	210	218	0,1	40591
End cap closed for type 010	-	160	176	0,1	47082

RECYFIX NC

Linear drainage channels for public and commercial area.



- Industrial yards
- Streets (alongside)
- Commercial areas





Tutong, petrol station, Brunei



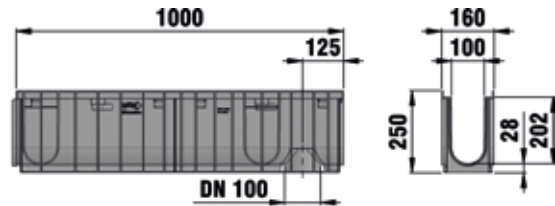
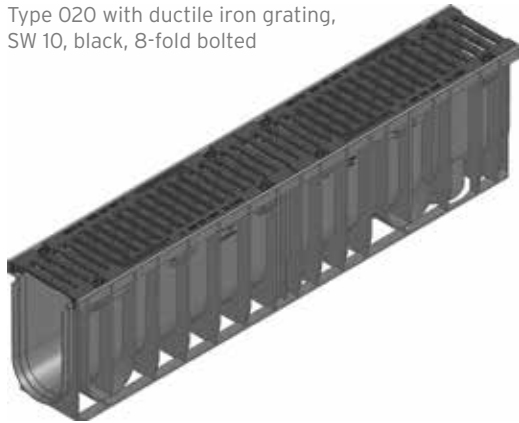
Sanwa Food Company - Office building, Osaka, Japan

RECYFIX®NC 100

Combi article

RECYFIX®NC 100, class E 600

Type 020 with ductile iron grating,
SW 10, black, 8-fold bolted



	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, black, SW 10 mm, 8-fold bolted	1000	160	150	92	427	10,7	48770
Type 010 with ductile iron grating, black, SW 10 mm, 8-fold bolted	1000	160	200	142	427	11,6	48772
Type 020 with ductile iron grating, SW 10 mm, black, 8-fold bolted	1000	160	250	192	427	12,5	48776
Type 75 with ductile iron grating, black, SW 10 mm, 8-fold bolted	1000	160	75	35	427	10,2	48774

Accessories

End caps and further accessories



End cap closed
for type 01



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



Mud bucket vertical
DN 100, black

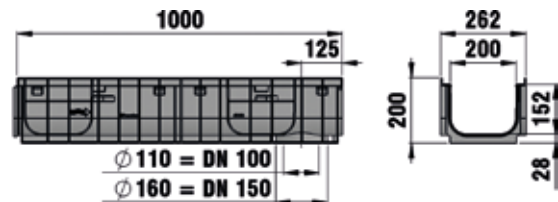
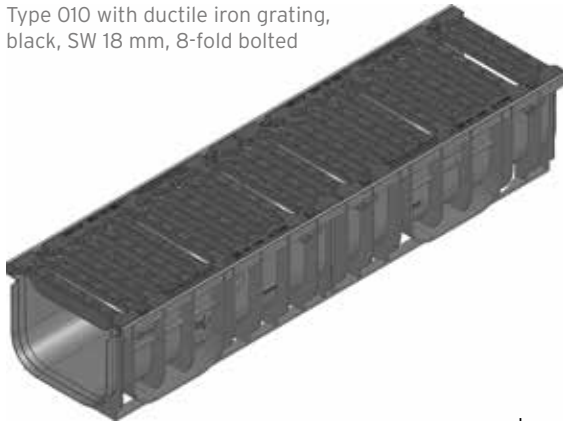
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed for type 01	-	160	124	-	48681
End cap closed for type 010	-	160	176	0,1	47082
End cap made of PP with outlet DN 100 for type 010	-	160	201	0,1	47093
End cap made of PP, type 020	-	160	-	0,1	48683
End cap made of PP with outlet DN 100, type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

Combi article

RECYFIX®NC 200, class E 600

Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted



	Length mm	Width mm	Height mm	Drainage cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted	1000	262	200	294	936	20,8	49572

Accessories

End caps and further accessories



End cap combined made of PP closed / with outlet DN 100, Type 010



Mud bucket DN 150

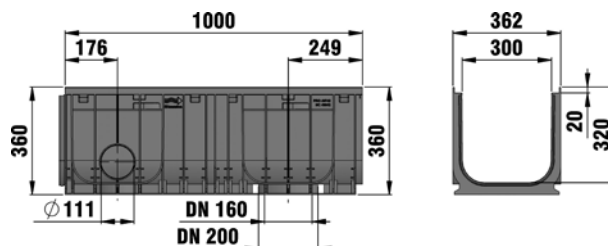
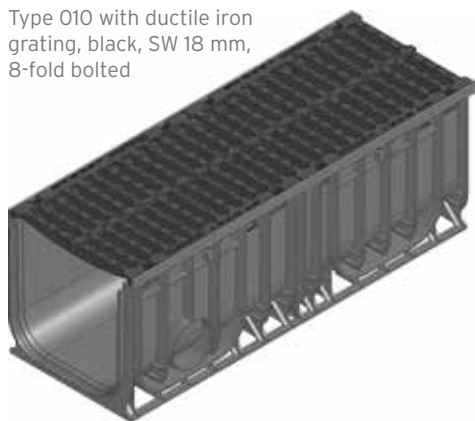
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap combined made of PP closed / with outlet DN 100, Type 010	-	258	217	0,2	41387
Mud bucket vertical DN 100, black	100	100	85	-	40293
Mud bucket DN 150	-	-	180	0,6	845

RECYFIX®NC 300

Combi article

RECYFIX®NC 300, class E 600

Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted



	Length mm	Width mm	Height mm	Drainage cross-sect. cm \pm	Intake cross-sect. cm \pm /m	Weight kg	Item No.
Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted	1000	362	360	873	1293	35,0	49872

Accessories

End caps and further accessories



End cap closed, galvanised, type 010



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



Mud bucket DN 150

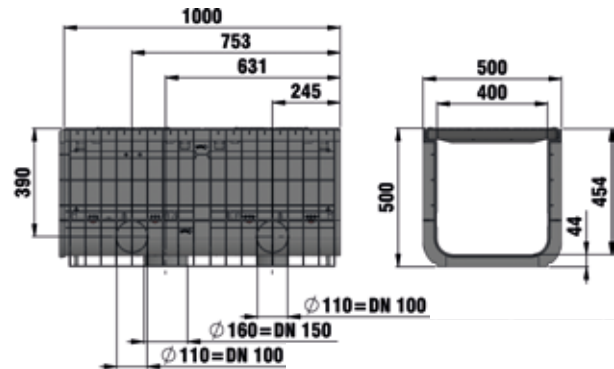
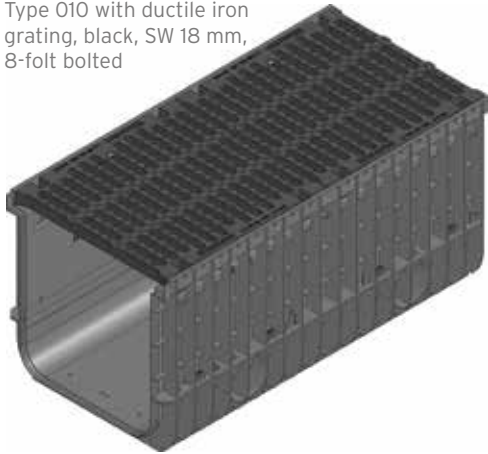
	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, galvanised, Type 010	-	360	360	1,9	49783
End cap with horizontal UPVC-outlet DN 200, galvanised, Type 010	-	360	360	2,6	49791
Mud bucket DN 150	-	-	180	0,6	845

RECYFIX®NC 400

Combi article

RECYFIX®NC 400, class D 400

Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted



	Length mm	Width mm	Height mm	Drainage cross-sect. cm±	Intake cross-sect. cm±/m	Weight kg	Item No.
Type 010 with ductile iron grating, black, SW 18 mm, 8-fold bolted	1000	500	500	1640	1753	57,2	42421

Accessories

End caps and further accessories



End cap closed, type 010



End cap with horizontal UPVC - outlet DN 300, type 010



Mud bucket DN 150

	Length mm	Width mm	Height mm	Weight kg	Item No.
End cap closed, type 010	-	500	498	3,1	42481
End cap with horizontal UPVC - outlet DN 300, type 010	-	500	498	4,9	42487
Mud bucket vertical DN 100, black	100	100	85	-	40293
Mud bucket DN 150	-	-	980	0,6	845

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 as a saw or core drill bit with little effort.



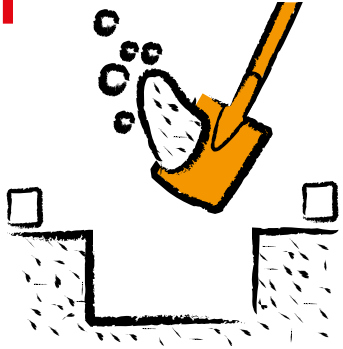
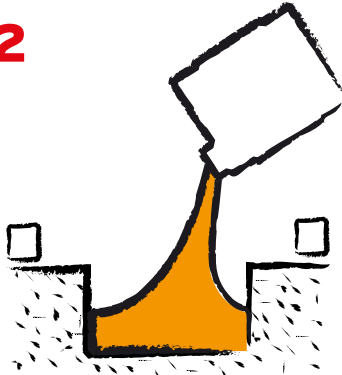
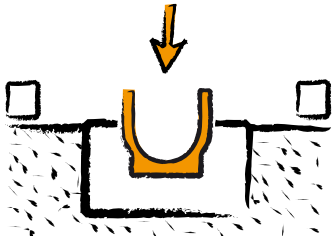
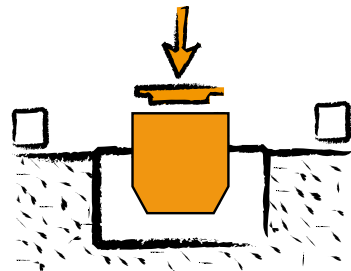
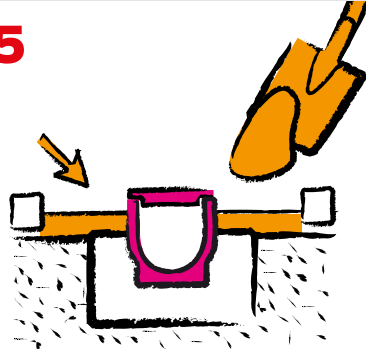
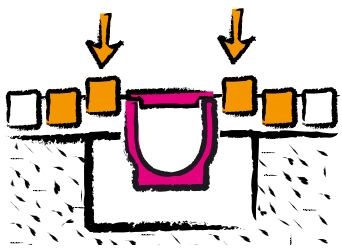
Combination items.

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.

Look up our current installation instructions on the internet under www.hauraton.com

Step by step installation instructions

An example for paving installation

<p>1</p>  <p>Dig a trench.</p>	<p>2</p>  <p>Fill with concrete and space it out evenly.</p>	<p>3</p>  <p>Stretch a line along the installation line. Lay the channel along this line. Connection to the sewage pipe: with trash boxes or endcap with outlet.</p>
<p>4</p>  <p>Place the closed end cap at the start of the channel run.</p>	<p>5</p>  <p>Prepare a lateral backing structure made of concrete.</p>	<p>6</p>  <p>Lay paving. Fill joints. Important: adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.</p>

All current and detailed installation instructions online on www.hauraton.com



See here the step by step installation Video.

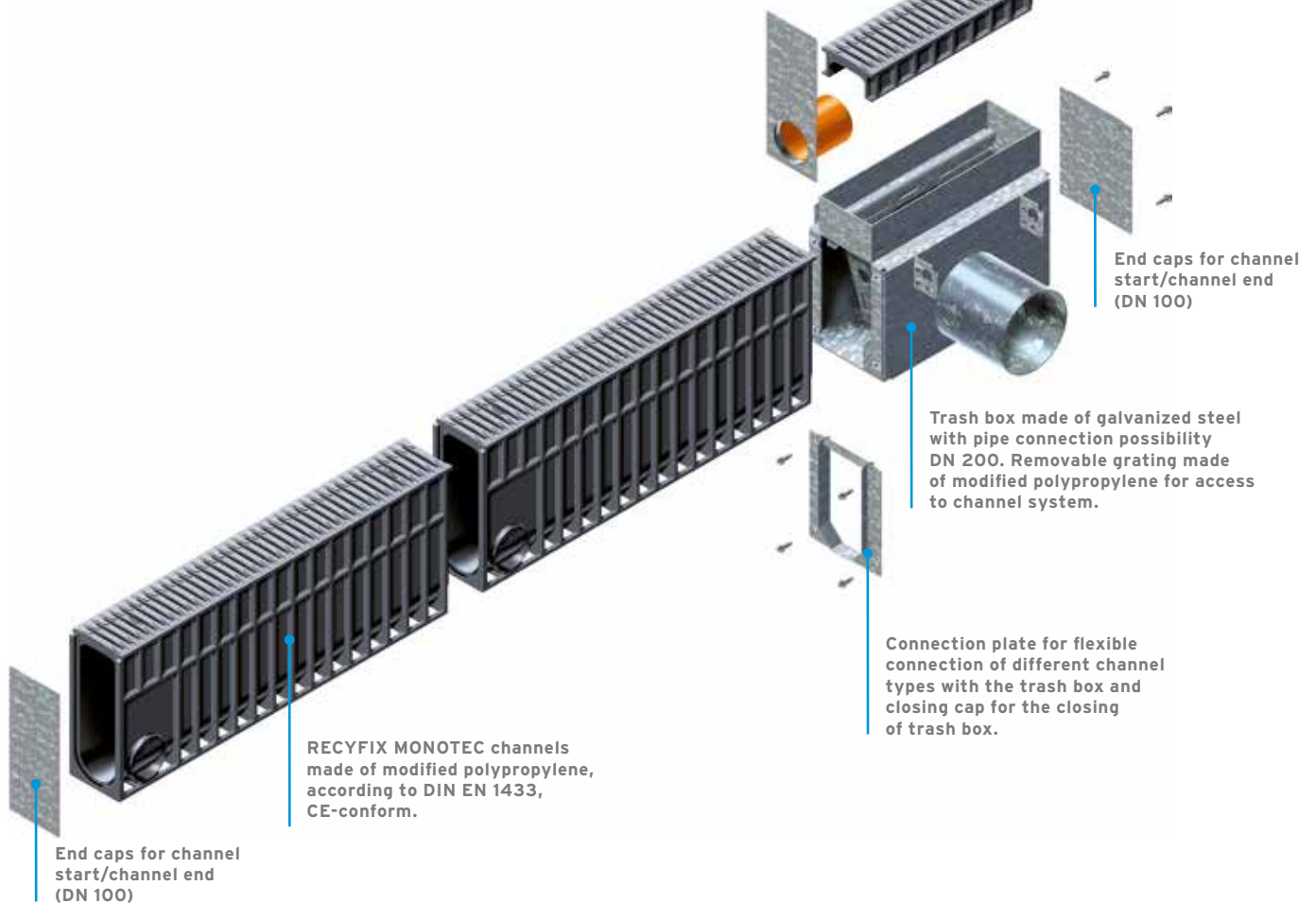
Additional drainage systems

RECYFIX MONOTEC

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

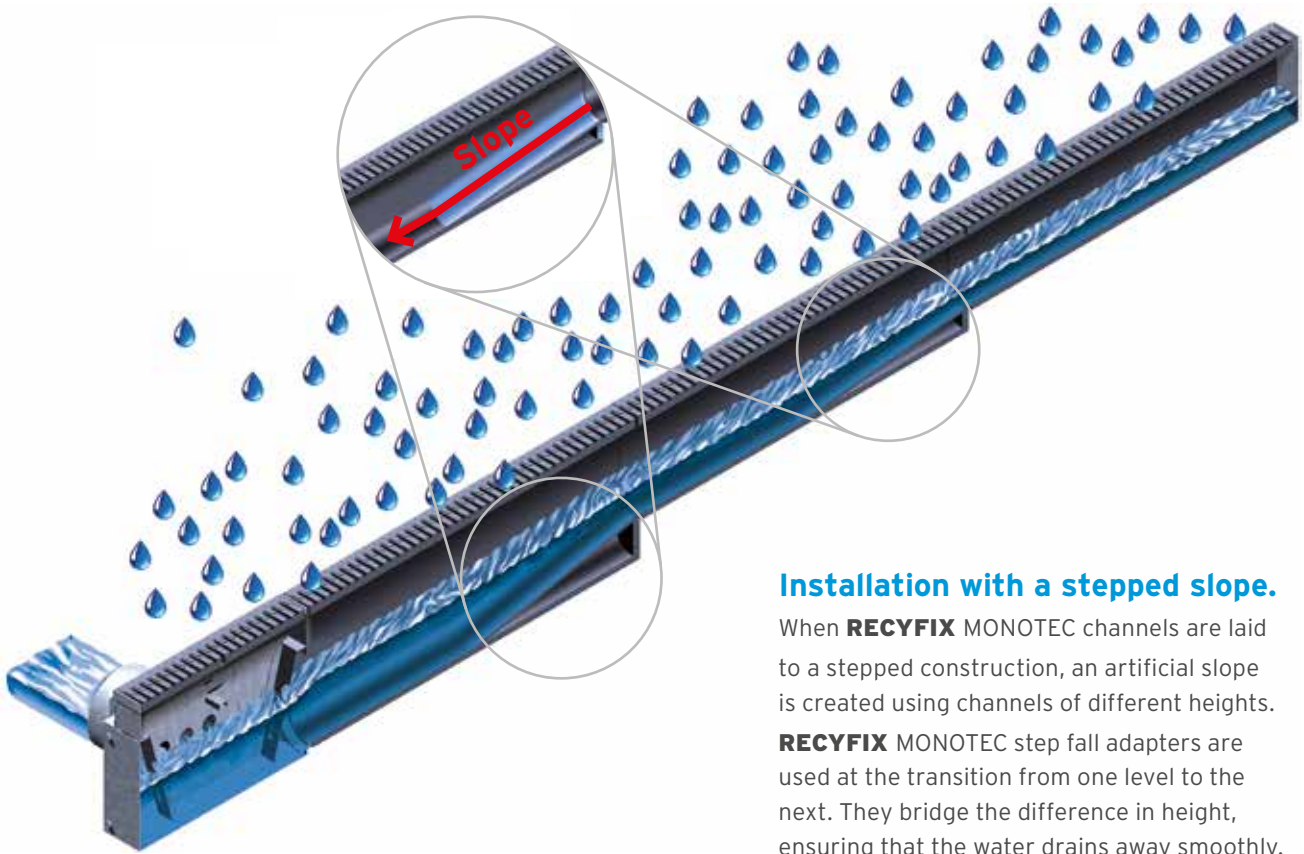


- ✓ Parking areas
- ✓ Residential areas
- ✓ Commercial areas



Step Fall adaptors

(with the example of **RECYFIX** MONOTEC)



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

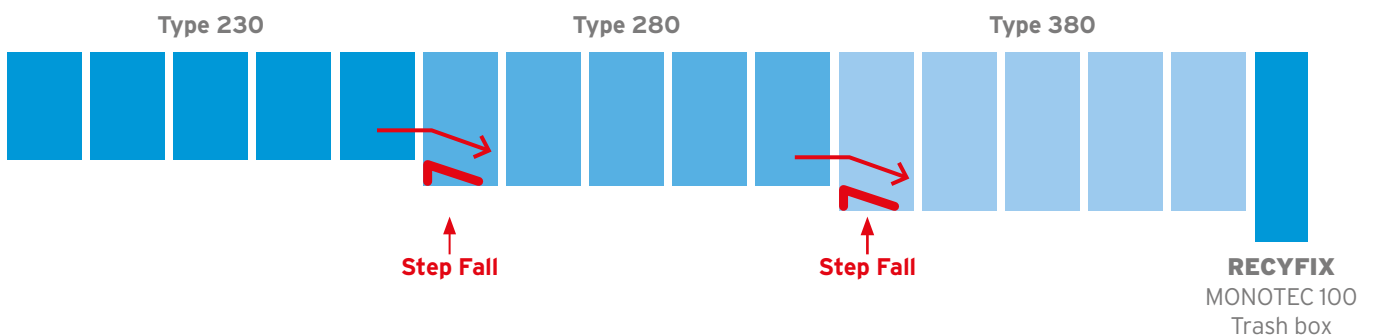


Step Fall Adapter for transition from type 230 to 280



Step Fall Adapter for transition from type 280 to 380

RECYFIX MONOTEC Channel 100:



Additional drainage systems

RECYFIX MONOTEC

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

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



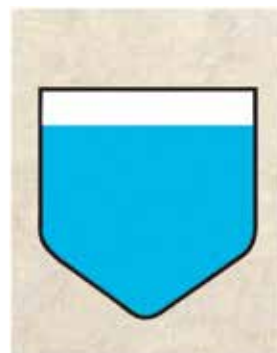
NW 100, Type 380



NW 200, Type 450



NW 200, Type 450



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



Motorway service Porto Go, Ayuthaya, Thailand



Gardens by the Bay Tadpole Area in Singapore

Additional drainage systems

RECYFIX HICAP F

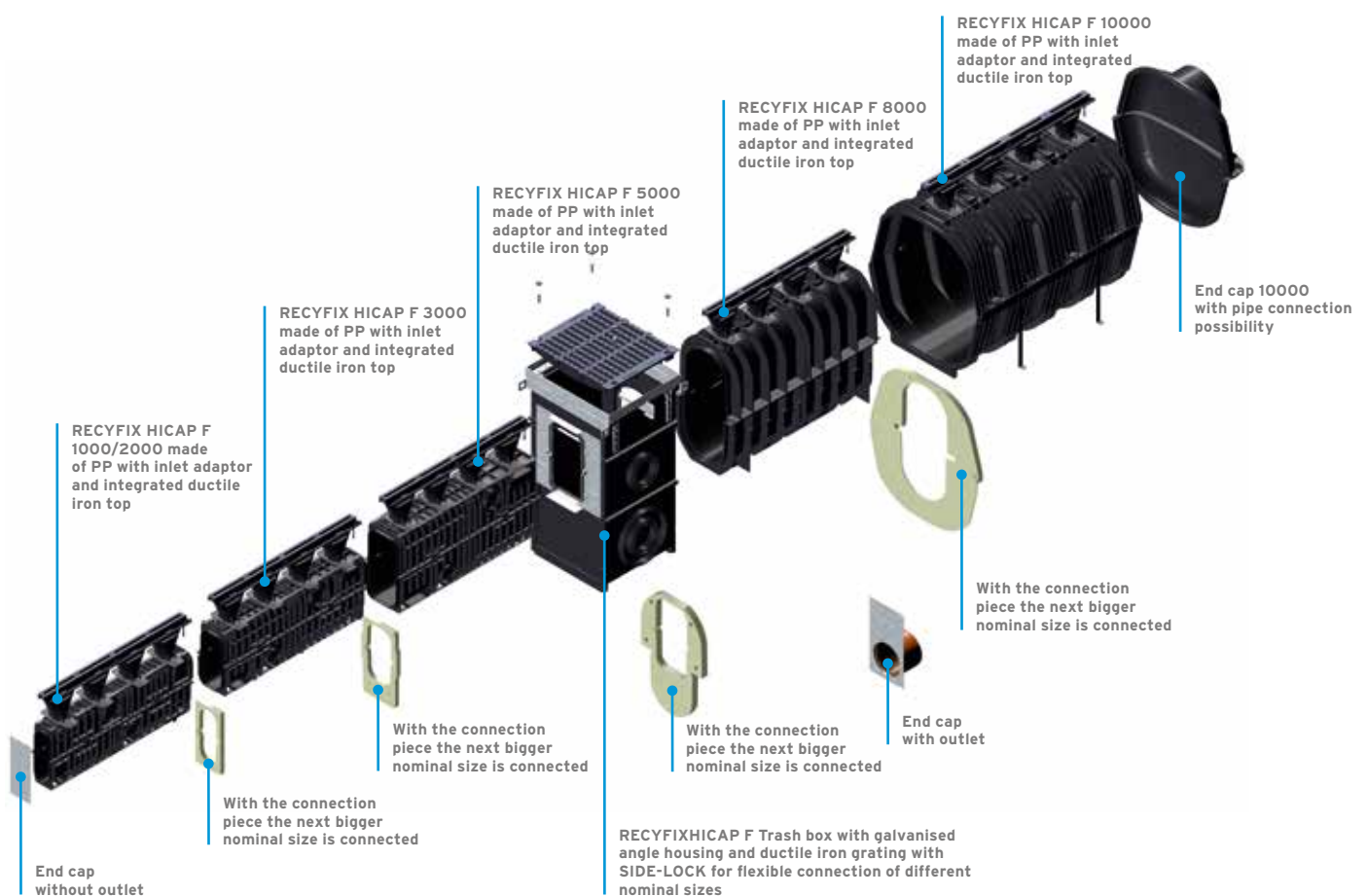
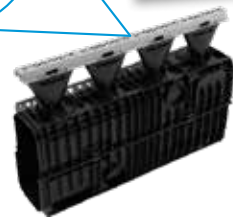
Drainage- and retention system for larger areas and highest loading capacities up to airports.



- ✓ high capacity drainage channel
- ✓ suitable for heavy load areas
- ✓ no expensive crane or machine hours for installation required



NEW
stainless steel gratings
for prestigious areas



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 a uniform visual appearance also in lage projects
- no separate gratings
- no expensive pipe installations required
- high hydraulic capacity
- easy to maintain



Additional drainage systems

SPORTFIX

The comprehensive range for all Sports Facilities.



- ✓ high quality systems for track and field drainage
- ✓ water jump, longjump, sand traps and soft kerb compliment the product range
- ✓ all products met the IAAF Standards

DRAINFIX CLEAN

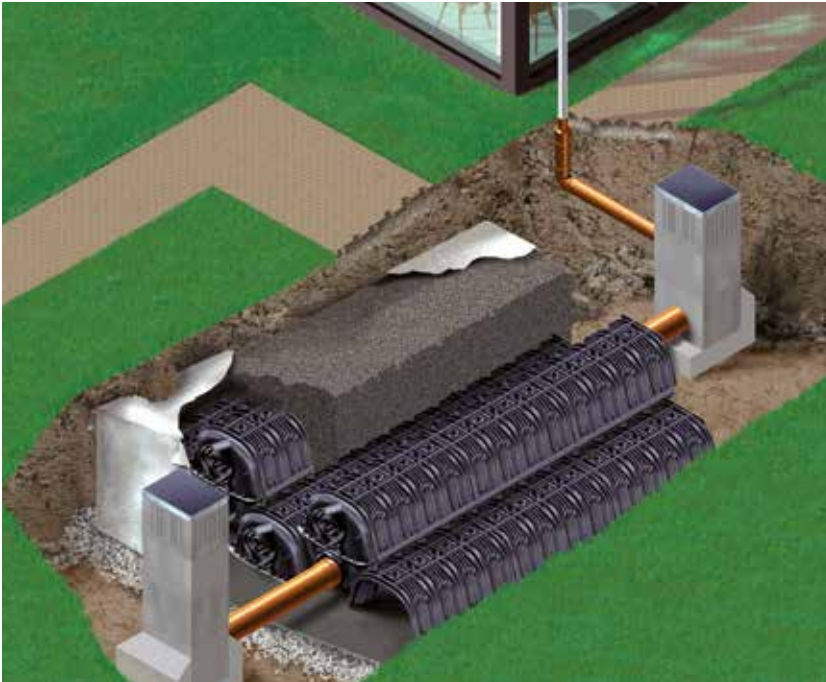
Effective and ecological rain water treatment through filter substratum channel.



- ✓ Drainage and treatment of runoff water in one system
- ✓ excellent treatment effects
- ✓ extremely low maintenance
- ✓ high retention capacity

DRAINFIX TWIN

Infiltration of rainwater on smallest space under car-trafficked areas.



- ✓ very large storage volume
- ✓ flexible installation alignment due to variable combinations
- ✓ combination of seepage and retention possible

AQUAFIX Separators

Series „10 PE“ made of polyethylene.
Light solutions for strong requirements.



- ✓ 10 mm wall thickness for highest security
- ✓ optimised construction after FE-analysis
- ✓ pure, high quality raw material is used in the optimised production process

More information at
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All drawings, measurements and weights are noncommittal!
 We reserve the right to do technical changes for improvement.

