



RECYFIX[®] MONOTEC

A monolithic drainage system designed to accept large volumes of rainwater - to load class D400kN



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RECYFIX® MONOTEC

Monolithic drainage system - lightweight and robust

Lightweight for simple, fast and low-cost installation

- maximum stability with minimum weight
- significantly lighter than channels made of mineral material
- simple to transport, handle and install



1m 100mm channel = 7,8kg
1m 200mm channel = 16,2kg



Fast installation



Simple processing



Easy transport

RECYFIX® - corrosion free and extremely strong

- High-Tech-Material from renowned Plastic Research Institute
- permanently resistant to frost, de-icing salt and UV light
- extremely durable even with frequent traffic

100% corrosion free



100% corrosion free, especially in cases of frost and de-icing salt



Asphalt installation



Concrete installation



Block paved installation



Frequently trafficked area

RECYFIX® MONOTEC

Monolithic drainage system for heavily frequented traffic 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 places, public spaces
- School playgrounds
- Residential areas
- Gas stations
- Trafficked areas in trade and industrial sites

3 Solutions

Therefore, RECYFIX MONOTEC channels are especially suitable for draining such surfaces:

- Lightweight ensuring simple processing for cost-effective installation
- Channel made of specially resistant recycled modified polypropylene
- Leak-proof and chemical-resistant
- Extremely robust
- Very quick to install

A selection of Hydraulic Performance tables for the most popular sizes of FASERFIX® and RECYFIX® channels including the RECYFIX® MONOTEC and RECYFIX® HICAP® ranges are available on request in an 8 page hard copy or PDF publication.

Hauraton channel drainage configurations are designed and sized using in-house **Hydraulic design software**. The accuracy of the software has been verified by physical testing of Hauraton systems within a hydraulic discharge test flume, replicating and evaluating hundreds of flow scenarios.

Hydraulic design software is also available free of charge to industry professionals. Intuitive and user friendly, **Hauraton Design Software** allows engineers to create drainage schemes for the company's range of civil engineering systems on tablets, desktop computers or through the internet (web-based application).

For smaller projects where a quick indication of the appropriate channel size and system is required for a given catchment area, Hauraton can provide their **Hydraulic Design App**.

For further details contact the Hauraton Technical Support Team



RECYFIX® MONOTEC - Class D400kN

Features & Benefits

100% corrosion free



high hydraulic capacity

- optimised inlet surface with composite corrosion free grating design
- high capacity with slim channel construction

= Safety



low weight ensures easy handling on site

- significantly lighter than channels made of mineral material
- simple to transport and install - one man lift

= Time and cost savings



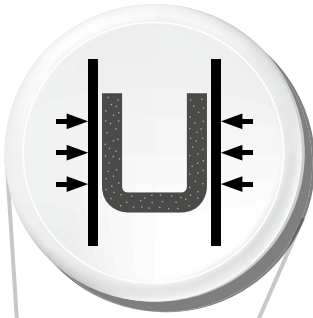
Fast installation



Easy transport



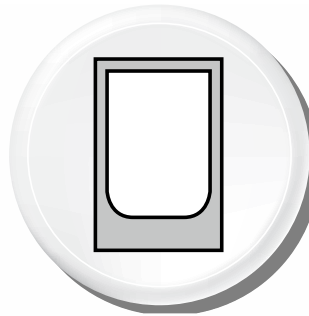
Simple processing



strong and durable

- impact resistant to D400kN loadings
- strong elastic material

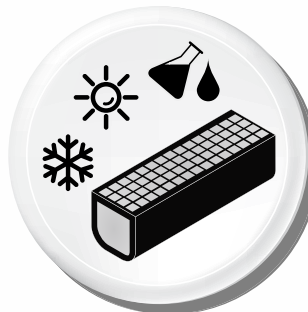
= **Longevity**



one piece channel

- highly stable monolithic channel
- anti theft design

= **Longevity**



high resistance

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

= **Durability**



low maintenance

- cleaning the system is simplified via inspection box units
- durable high-quality appearance

= **Time and cost savings**



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



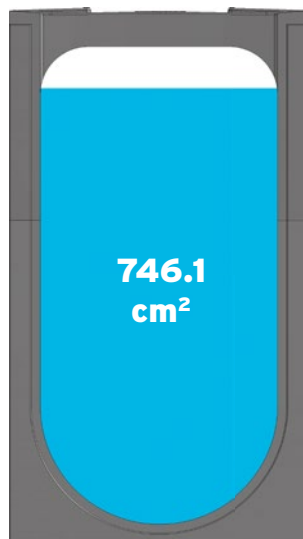
NW 100, Type 280



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

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SERVICE
CHANNEL

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**

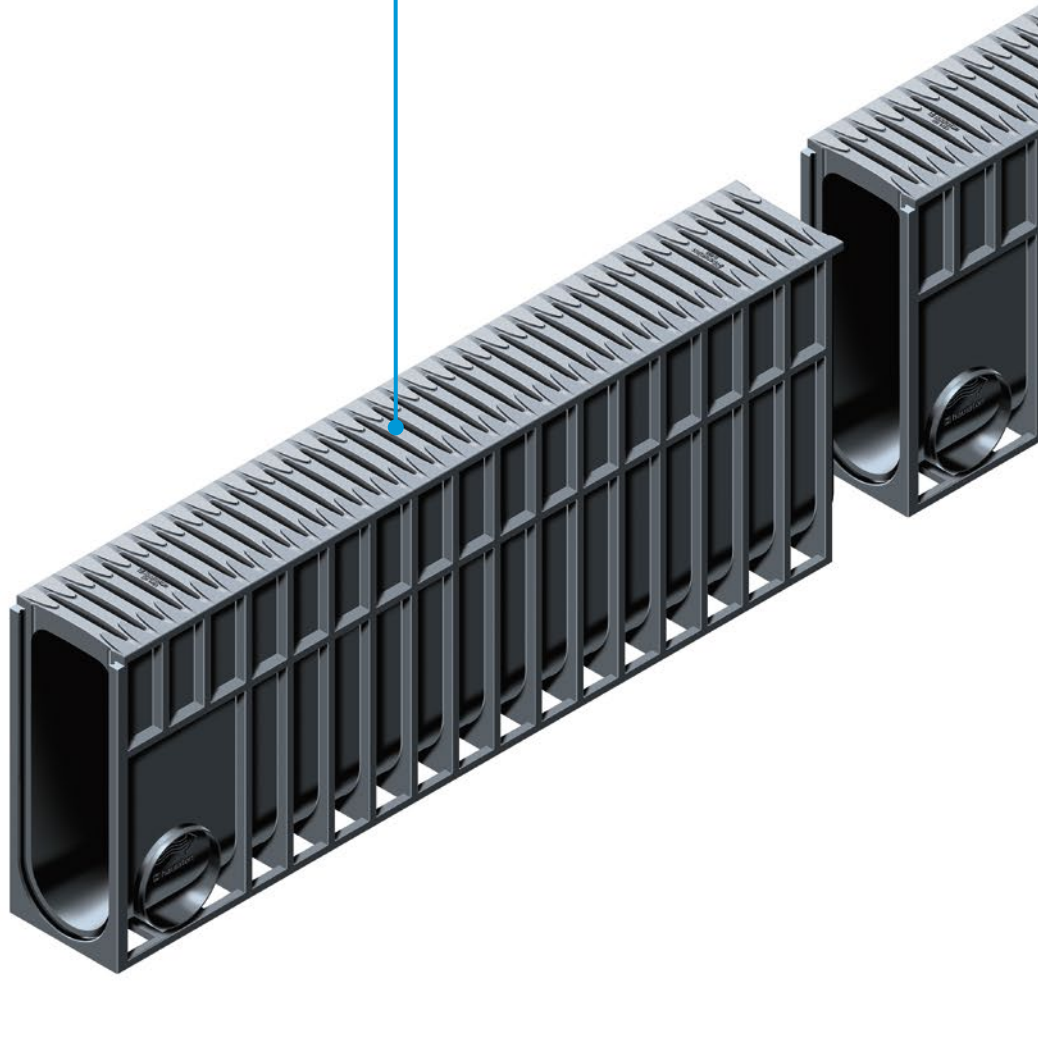


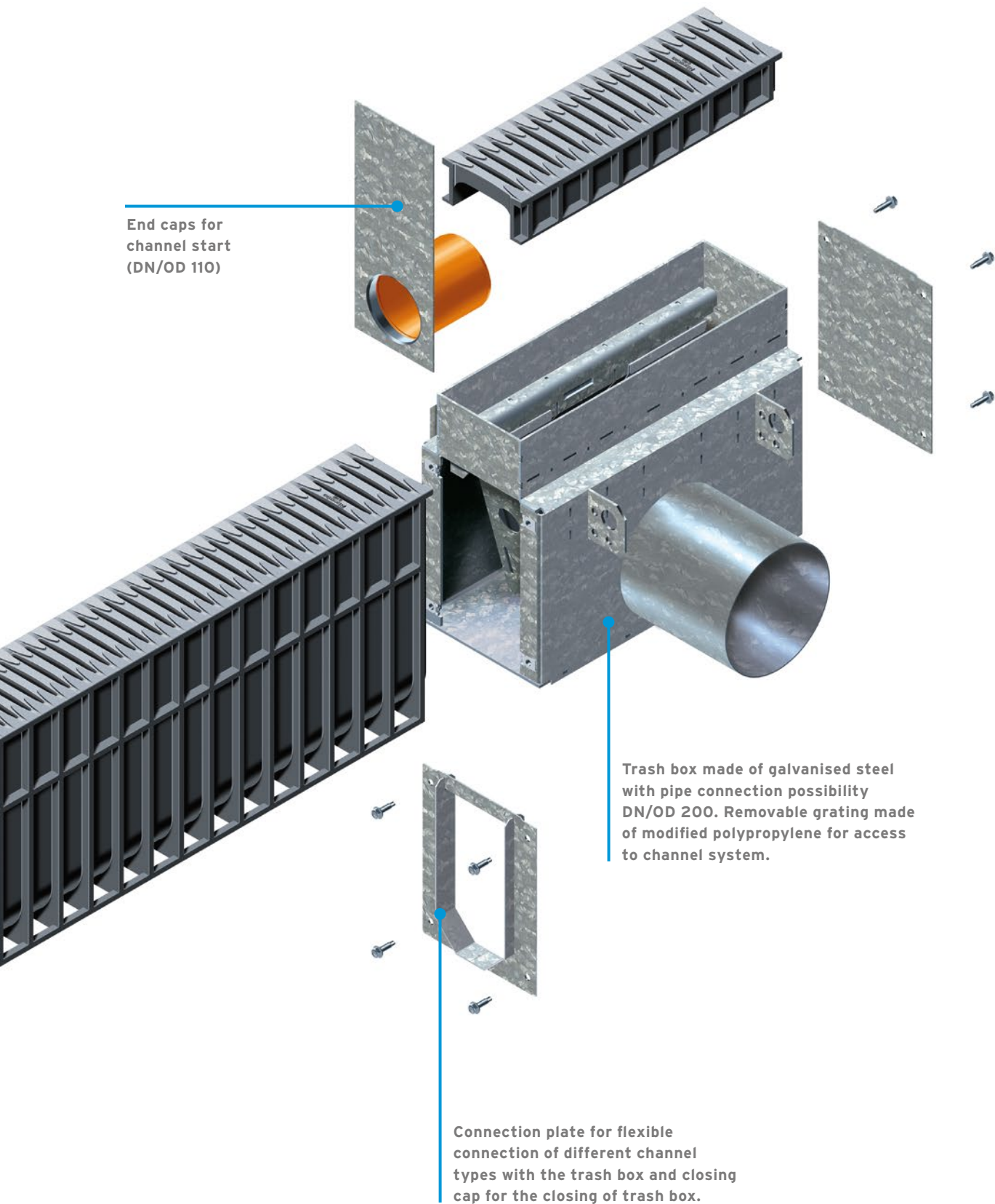
**Category D 400,
Load Class 400 kN**

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)





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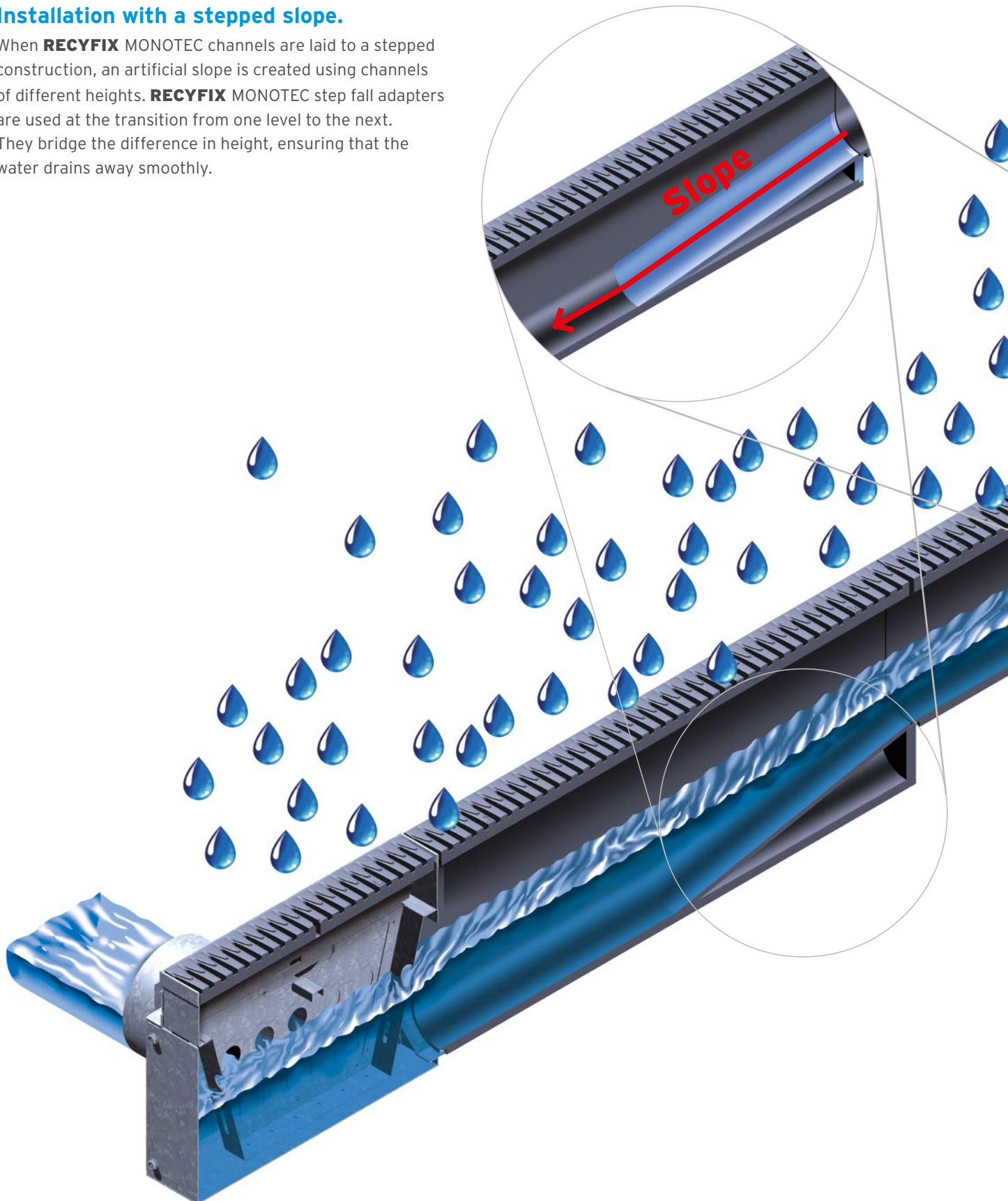
SERVICE
CHANNEL

RECYFIX MONOTEC Step Fall

Reliable hydraulic performance for channel runs with a stepped slope.

Installation with a stepped slope.

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





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

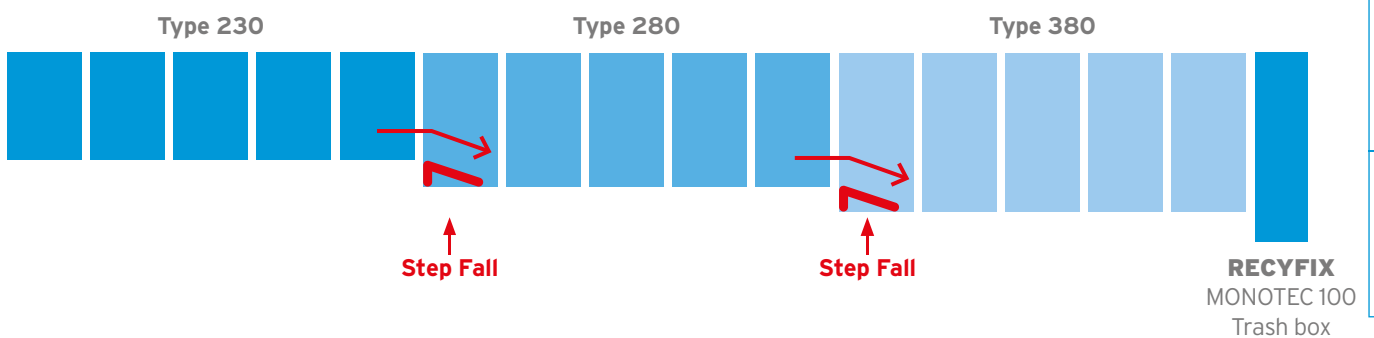


Step Fall Adapter for transition
from type 230 to 280



Step Fall Adapter for transition
from type 280 to 380

RECYFIX MONOTEC Channel 100:



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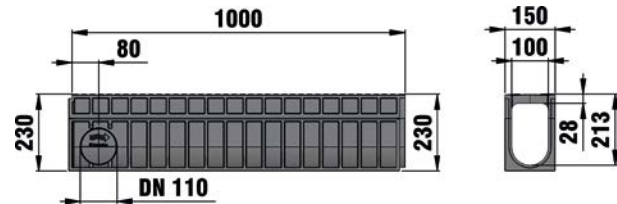
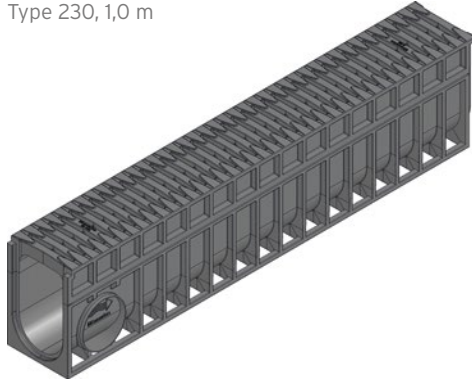
SERVICE
CHANNEL

RECYFIX® MONOTEC 100

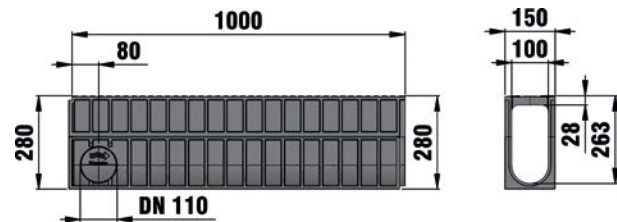
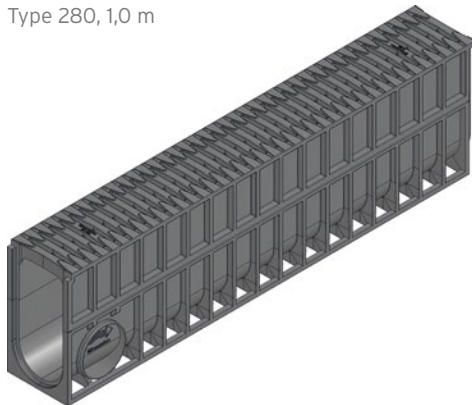
Monolithic channel

RECYFIX® MONOTEC 100, up to class D 400

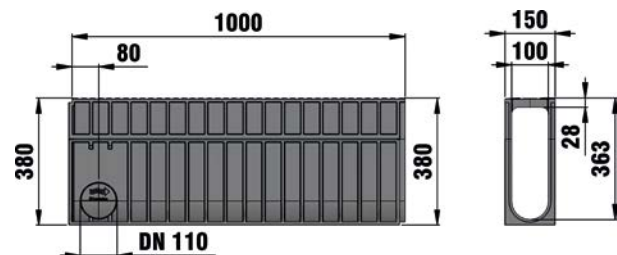
Type 230, 1,0 m



Type 280, 1,0 m



Type 380, 1,0 m



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 230, 1,0 m	1000	150	230	190	372	8,21	36000
Type 280, 1,0 m	1000	150	280	245	372	9,20	36005
Type 380, 1,0 m	1000	150	380	355	372	11,19	36015

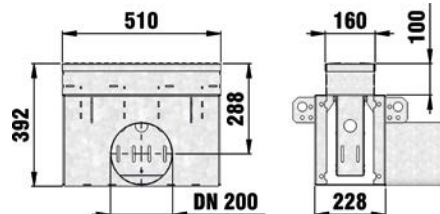
RECYFIX® MONOTEC 100

Accessories

Trash boxes



Trash box with galvanised bucket



Connection plate with screw set, galvanised, channel type 230



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

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

All trash and inspection boxes are factory-made with the end face open to enable a modular use for all application situations:

- Option 1: one-sided channel connection: You will need 1 connection plate with the same channel height (= same type) and an closing cap.
- Option 2: two-sided channel connection: You will need 2 connection plates with the same channel height (= same type).

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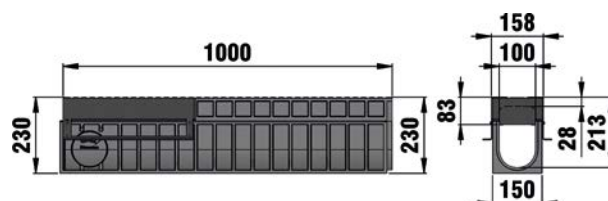
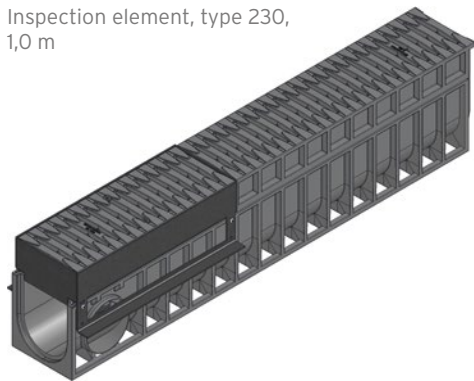
SERVICE
CHANNEL

RECYFIX® MONOTEC 100

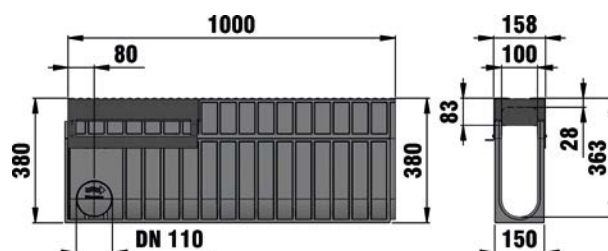
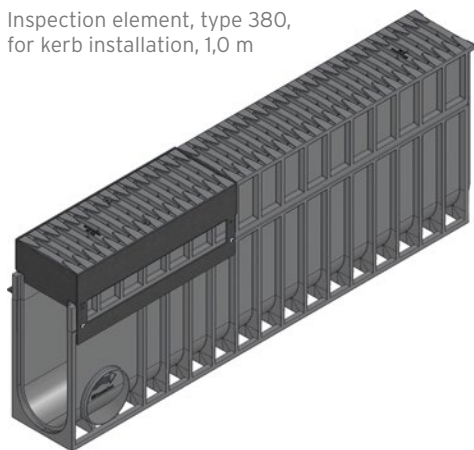
Accessories

NEW Inspection elements

Inspection element, type 230,
1,0 m



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



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Inspection element, type 230, 1,0 m	1000	158	230	130	351	10,89	36062
Inspection element, type 280, 1,0 m	1000	158	280	185	351	11,79	36063
Inspection element, type 380, 1,0 m	1000	158	380	295	351	13,72	36065
Inspection element, type 230, for kerb installation, 1,0 m	1000	158	230	130	351	11,12	36066
Inspection element, type 280, for kerb installation, 1,0 m	1000	158	280	185	351	12,11	36067
Inspection element, type 380, for kerb installation, 1,0 m	1000	158	380	295	351	14,10	36069

RECYFIX® MONOTEC 100

End caps



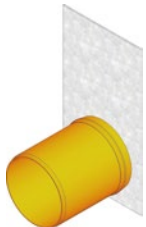
End cap closed, galvanised, type 230



End cap closed, galvanised, type 280



End cap closed, galvanised, type 380



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



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

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

Further accessories



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



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

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

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

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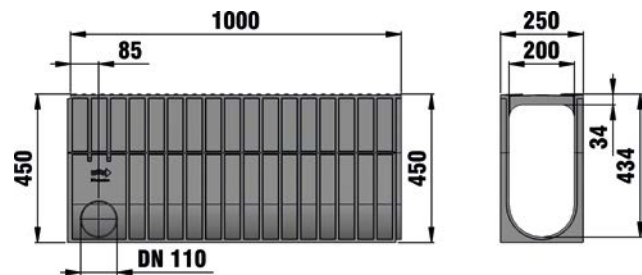
SERVICE
CHANNEL

RECYFIX® MONOTEC 200

Monolithic channel

RECYFIX® MONOTEC 200, up to class D 400

Type 450, 1,0 m

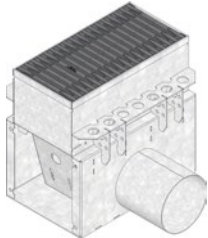


	Length mm	Width mm	Height mm	Internal channel cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Type 450, 1,0 m	1000	250	450	746	656	16,31	36215

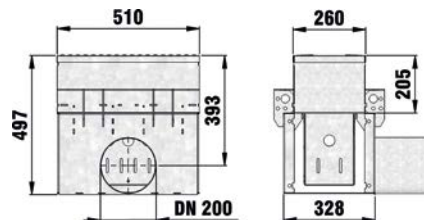
RECYFIX® MONOTEC 200

Accessories

Trash boxes



Trash box with galvanised bucket



Looking handle with screw for protection against vandalism



Connection plate with screw set, galvanised, channel type 450



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

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

All trash and inspection boxes are factory-made with the end face open to enable a modular use for all application situations:

- Option 1: one-sided channel connection: You will need 1 connection plate with the same channel height (= same type) and an closing cap.
- Option 2: two-sided channel connection: You will need 2 connection plates with the same channel height (= same type).

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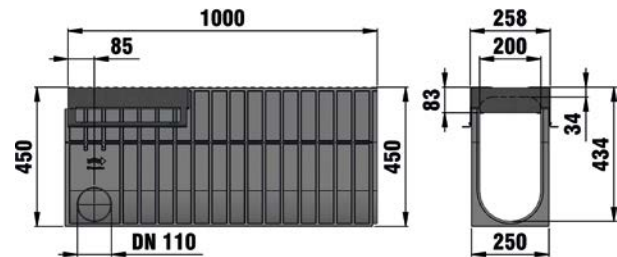
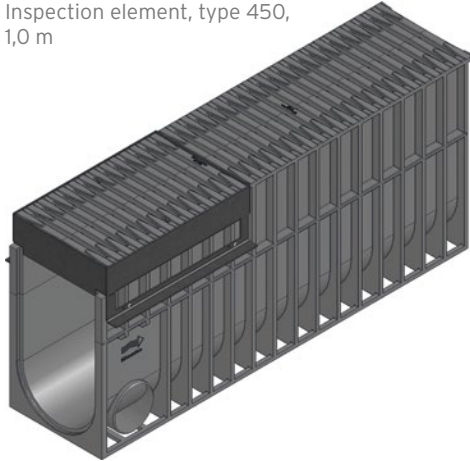
SERVICE
CHANNEL

RECYFIX® MONOTEC 200

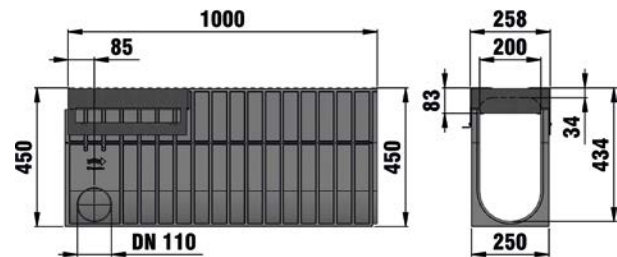
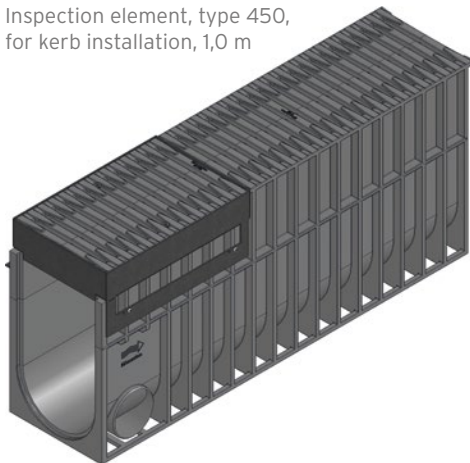
Accessories

NEW Inspection elements

Inspection element, type 450,
1,0 m



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



	Length mm	Width mm	Height mm	Internal channel cross-sect. cm ²	Intake cross-sect. cm ² /m	Weight kg	Item No.
Inspection element, type 450, 1,0 m	1000	258	450	648	307	19,69	36262
Inspection element, type 450, for kerb installation, 1,0 m	1000	258	450	648	307	19,22	36266

RECYFIX® MONOTEC 200

End caps



End cap closed, galvanised, type 450



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

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

Further accessories

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

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

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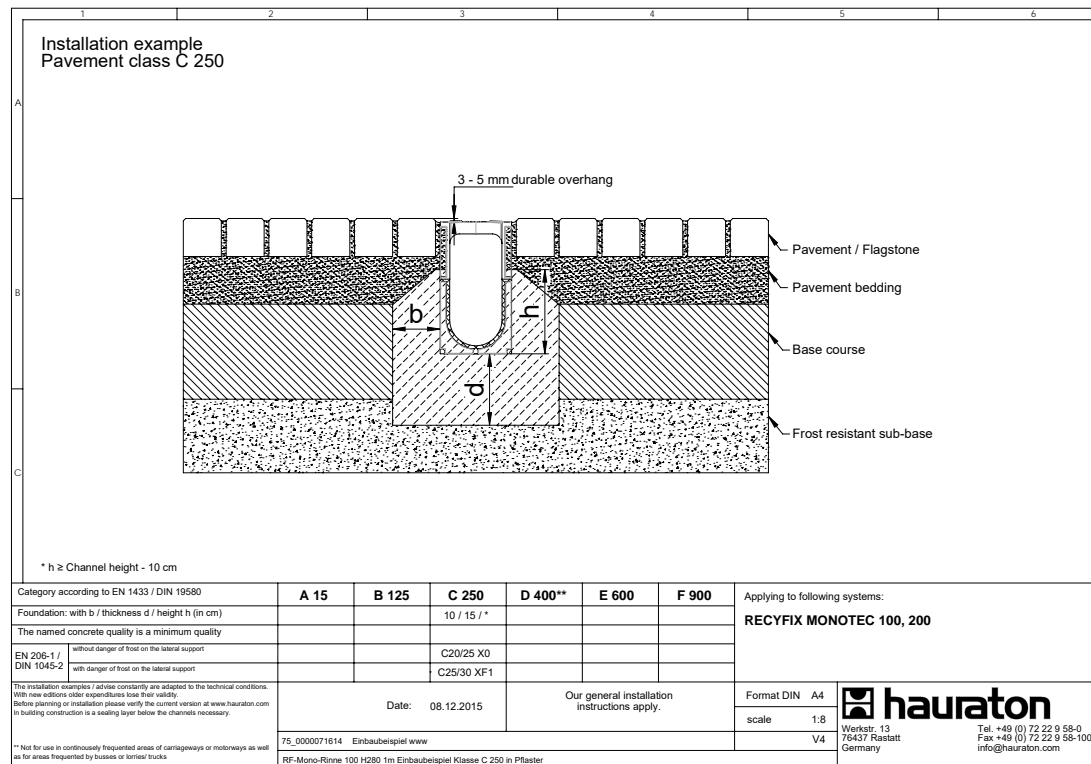
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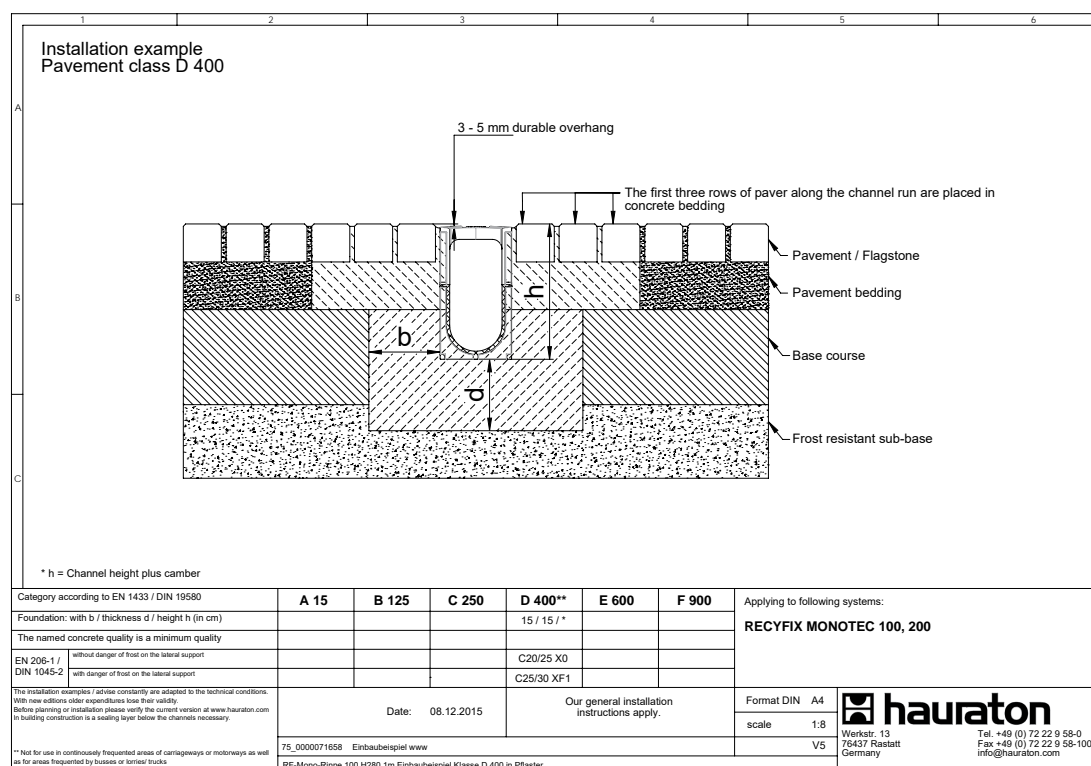
SERVICE
CHANNEL

Installation examples **RECYFIX®** MONOTEC

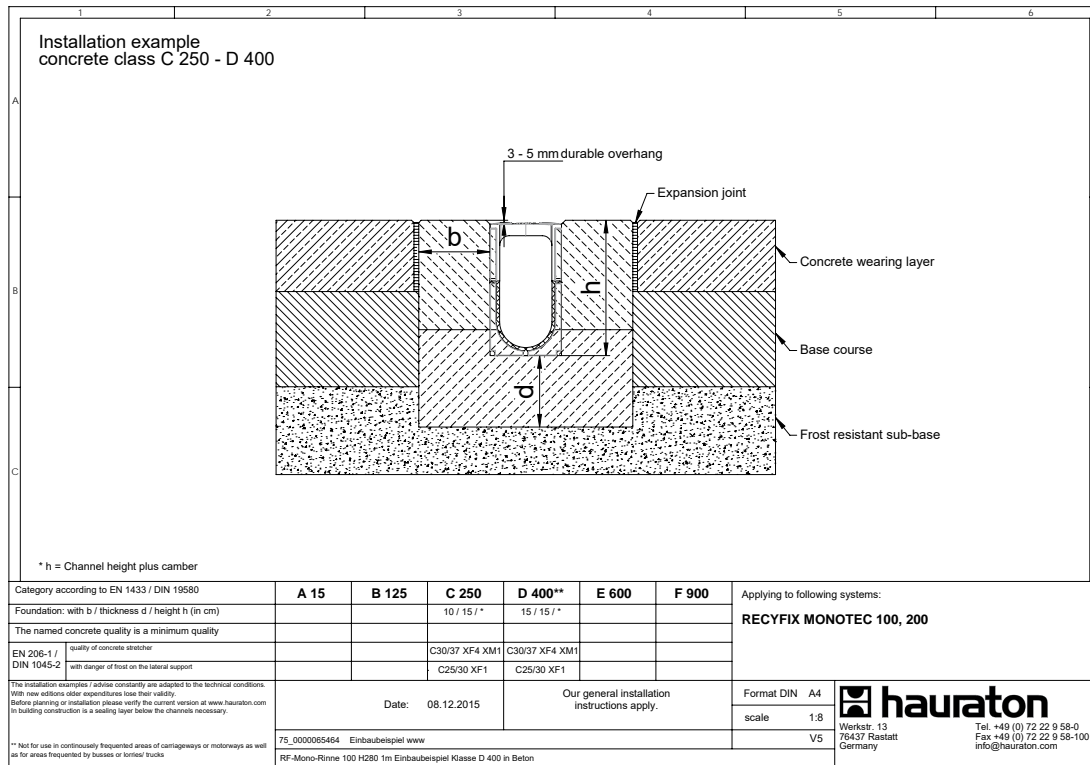
Installation example **pavement, class C 250**



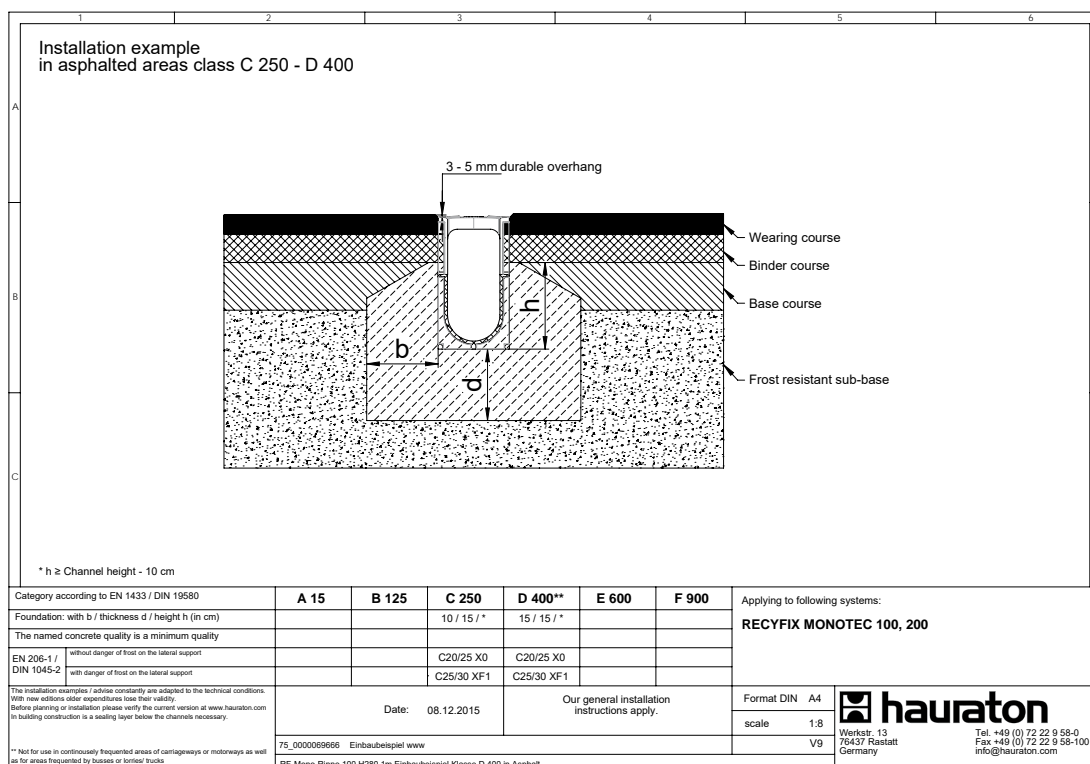
Installation example **pavement, class D 400**



Installation example **concrete, class C 250 - D 400**



Installation example **asphalt, class C 250 - D 400**





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