

# RECYFIX® NC

Technical Guide D17.7

An industrial grade channel system for those demanding heavy duty applications.



08.23 | DRAINAGE | D17.7 HAURATON RECYFIX NC

## Applications

High intensity forklift areas  
 Container handling facilities  
 Ports and inland ports  
 Fuel installations

## Product Attributes

Stable and lightweight linear drainage made of PP  
 Load capacity up to E 600kN  
 Maximum security with 8 bolt fixing  
 Very lightweight, quick and cost effective installation

## Approval/ Standards

Load rating as per EN 1433

## Quality

ISO 9001:2008 Quality Management System

*We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.*

# RECYFIX® NC

Engineered to be lightweight yet extremely stable.

## Requirement

- Modern drainage systems must permanently withstand high loads and large forces
- Be easy to install
- Be resistant to environmental influences (frost, heat, humidity)
- Comply with EN 1433

## Solutions

- Channels made of recycled Polypropylene
- Load capacity up to E 600kN according to EN 1433
- Maximum security through 8-fold bolt fixing
- Very lightweight, quick and cost saving installation
- High capacity slot for improved hydraulic performance

## Applications

- High intensity forklift areas
- Container handling facilities
- Ports and inland ports
- Fuel installations



FIG. 1 Service Station, Sanson

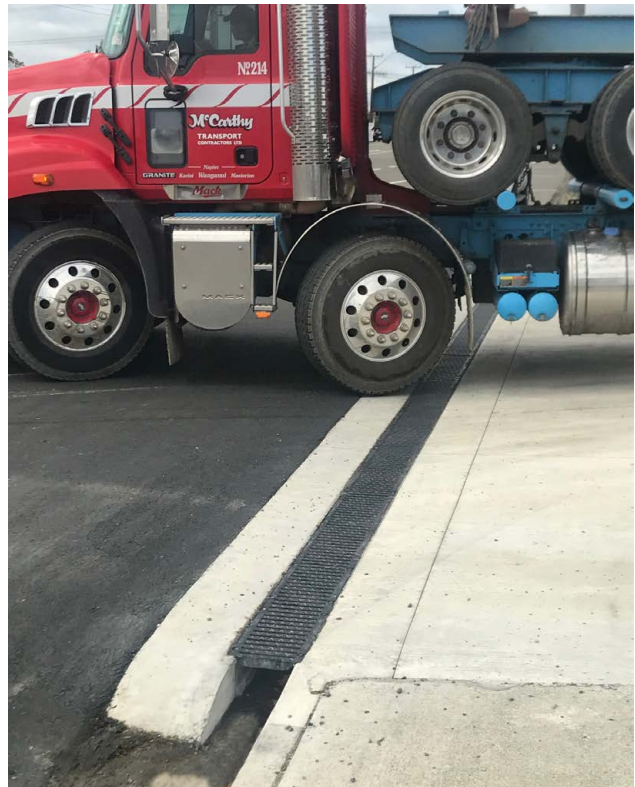


FIG. 2 Service Station, Sanson

## The benefits of RECYFIX® NC Channels

**High stability**

- Stable, durable ductile iron grating
- High quality ductile iron
- 8-fold bolted

**= Security**

**Prefabricated ready to install**

- Channel and grating = one part
- Easy handling in stock and on site
- Cost-effective transportation

**= Lower costs**

**Standards and approvals**

- Certified to EN 1433
- CE-marking

**= Security**

**Low weight ensures easy handling on site**

- Very easy handling and installation
- Maximum stability with minimum weight

**= Cost savings**

**High-grade material**

- RECYFIX® – stable and almost unbreakable
- Flexible and particularly resistant material
- Withstands high traffic loads and temperature differences in daily use

**= Security**

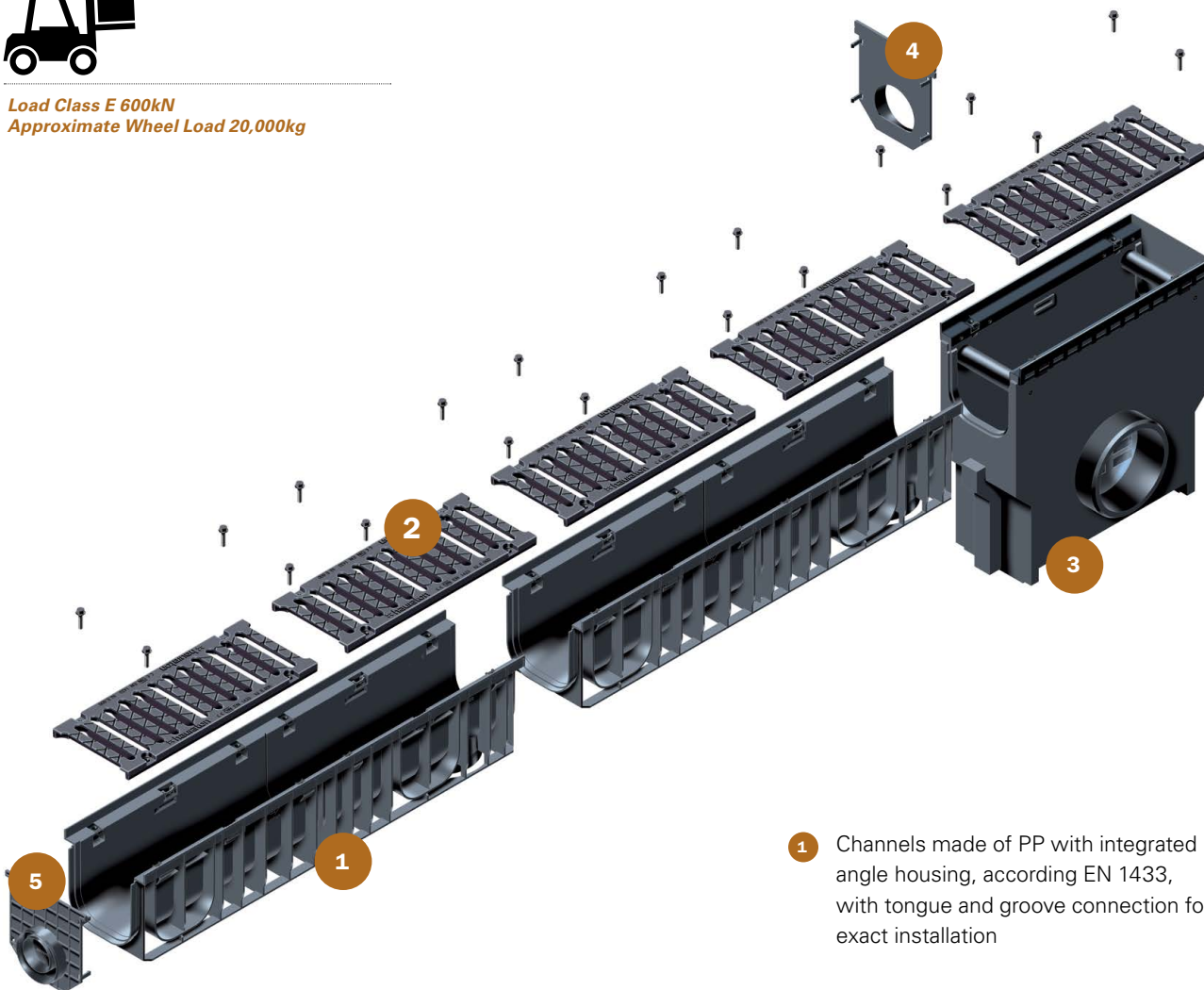
# Components

## Load Classes

European Standard EN 1433



Load Class E 600kN  
Approximate Wheel Load 20,000kg



- 1 Channels made of PP with integrated angle housing, according to EN 1433, with tongue and groove connection for exact installation
- 2 Stable ductile iron grating made of durable spheroidal ductile iron
- 3 Trash box with 2-sided pipe connection possibilities
- 4 End caps without outlet
- 5 End cap with outlet

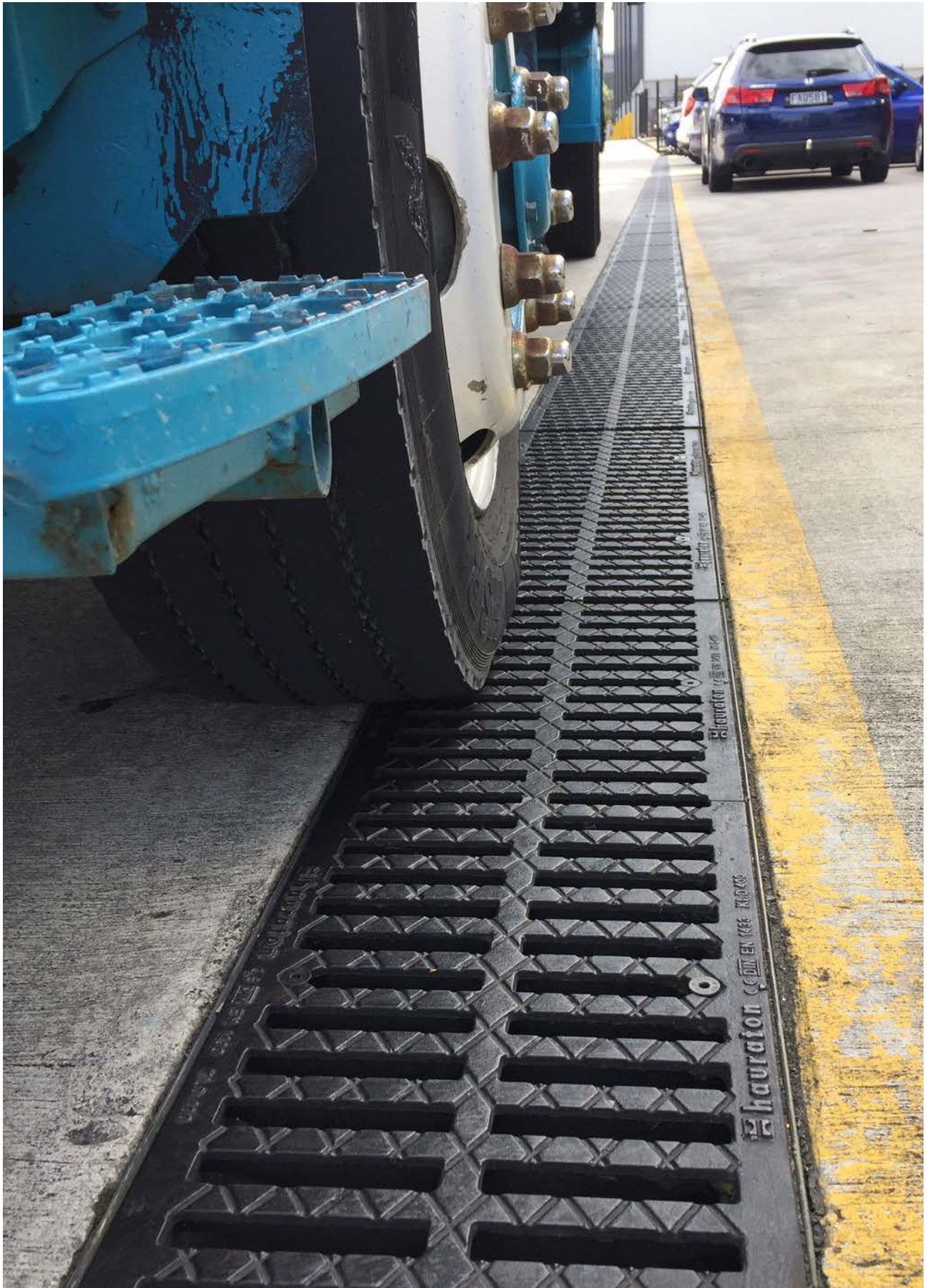


FIG. 3 RECYFIX® NC 300 D 400kN

# RECYFIX® NC 100

Class E 600kN

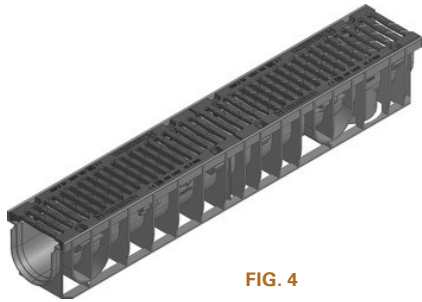


FIG. 4

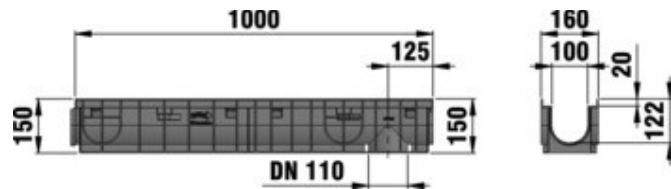


FIG. 5

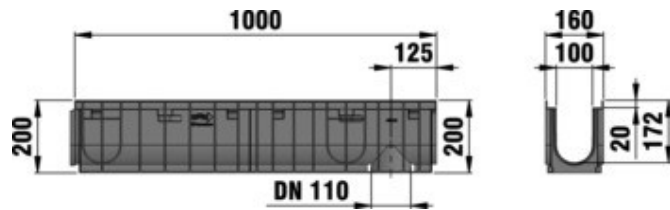


TABLE 1 RECYFIX® NC 100 E 600kN

Code	Description	Length mm	Width mm	Height mm	Drainage cross-sect cm <sup>2</sup>	Intake cross-sect cm <sup>2</sup> /m	Weight kg	Figure #
CHH01401904	Channel NC 100 DI Slotted 10mm Type 01	1000	160	150	92	427	10.7	4
CHH01401905	Channel NC 100 DI Slotted 10mm Type 010	1000	160	200	142	427	11.9	5

## Accessories

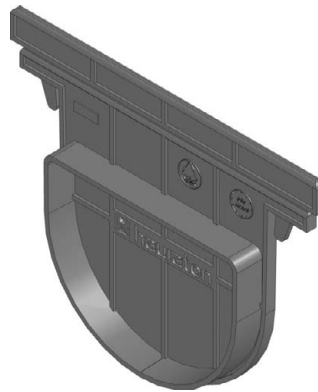
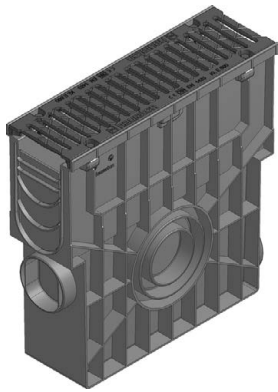


FIG. 6

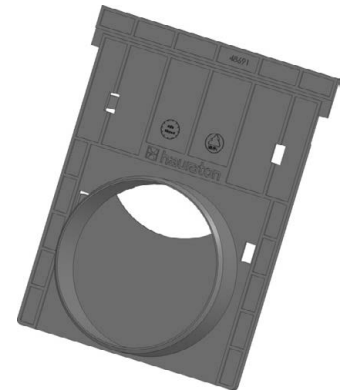


FIG. 7

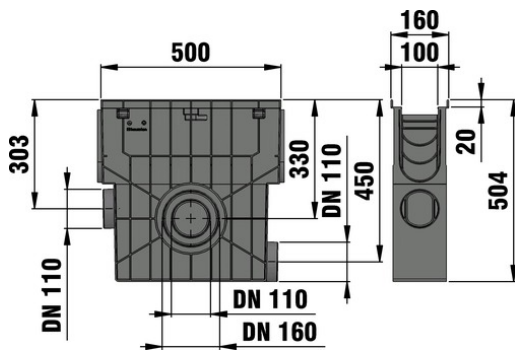


FIG. 8



FIG. 9

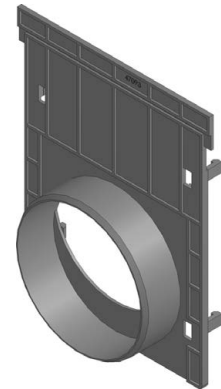


FIG. 10

TABLE 2 RECYFIX® NC 100 E 600kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01401300.1	Trash Box NC 100 DI Slotted 10mm	1000	160	150	6
CHH01401300.2	End Cap PRO NC 100 Blank Type 01	17	160	124	7
CHH01401300.3	End Cap PRO NC 100 Type 01 with 100mm PVC Outlet	34	160	200	8
CHH01401300.4	End Cap PRO NC 100 Blank Type 010	5	160	176	9
CHH01401300.5	End Cap PRO NC 100 Type 010 with 100mm Outlet	34	160	200	10

# RECYFIX® NC 150

Class E 600kN

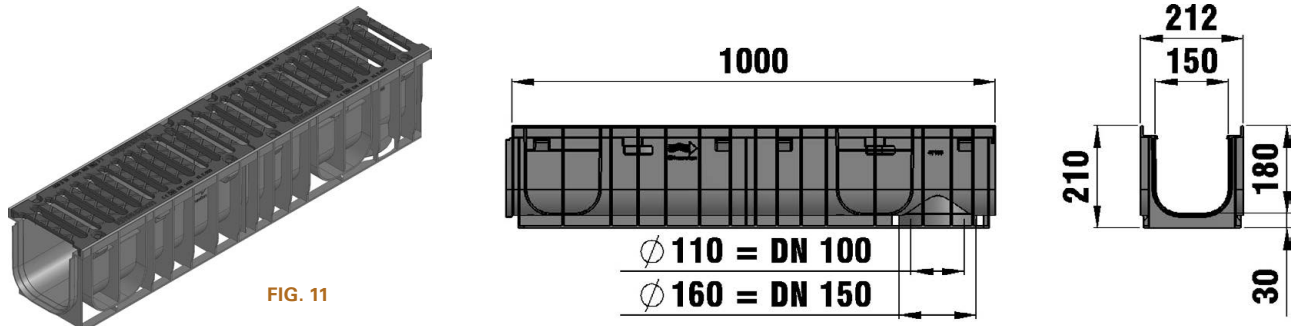


FIG. 11

TABLE 3 RECYFIX® NC 150 E 600kN

Code	Description	Length mm	Width mm	Height mm	Drainage cross-sect cm <sup>2</sup>	Intake cross-sect cm <sup>2</sup> /m	Weight kg	Figure #
CHH01401910	Channel NC 150 DI Slotted 18mm Type 01	1000	212	210	230	702	15.7	11

## Accessories

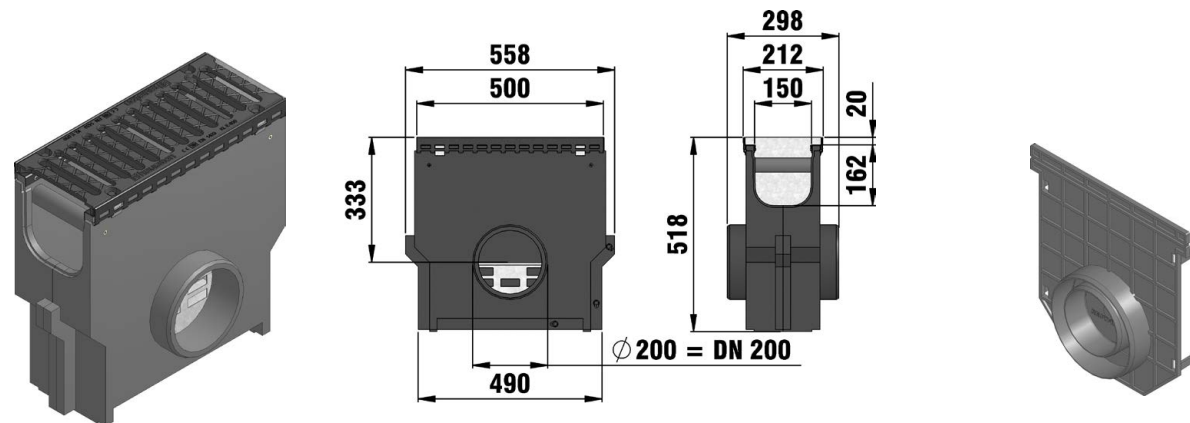


FIG. 12

FIG. 13

TABLE 4 RECYFIX® NC 150 E 600kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01401364.1	Trash Box NC 150 DI Slotted 10mm	500	212	518	12
CHH01401364.2	End Cap PRO NC 150 Type 01 with 75-110 PVC Outlet	24	210	218	13



# RECYFIX® NC 200

Class E 600kN

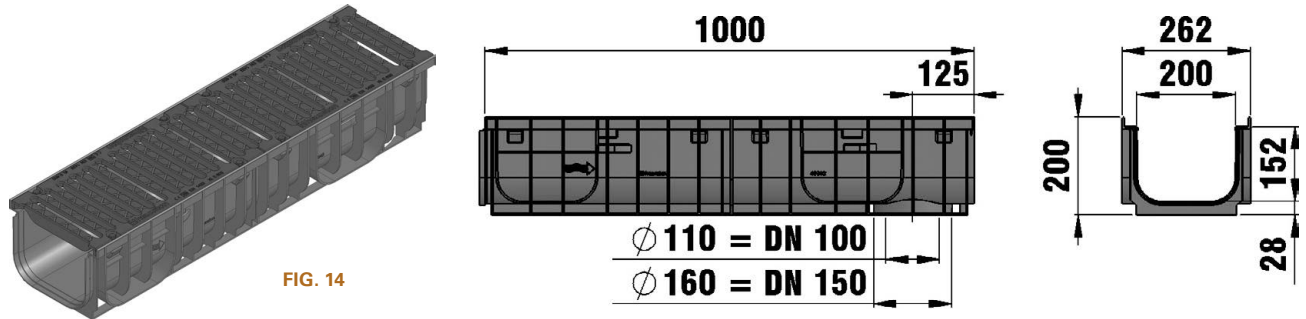


FIG. 14

TABLE 5 RECYFIX® NC 200 E 600kN

Code	Description	Length mm	Width mm	Height mm	Drainage cross-sect cm <sup>2</sup>	Intake cross-sect cm <sup>2</sup> /m	Weight kg	Figure #
CHH01401912	Channel NC 200 DI Slotted 18mm Type 010	1000	262	200	294	936	20.8	14

## Accessories

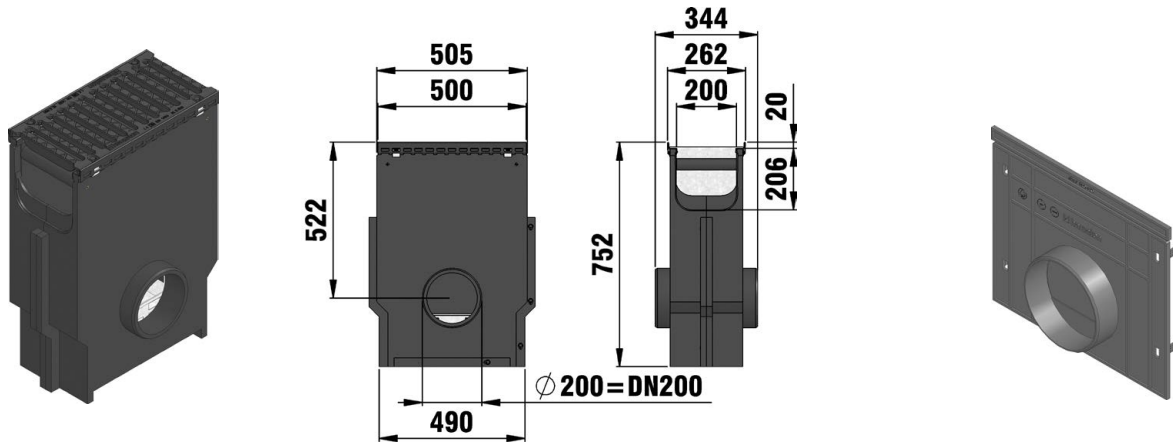


FIG. 15

FIG. 16

TABLE 6 RECYFIX® NC 200 E 600kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01401375.1	Trash Box NC 200 DI Slotted 18mm with Mud Bucket	500	262	752	15
CHH01401375.2	End Cap PRO NC 200 Type 010 with 100mm PVC Outlet	28	258	217	16

# RECYFIX® NC 300

Class E 600kN

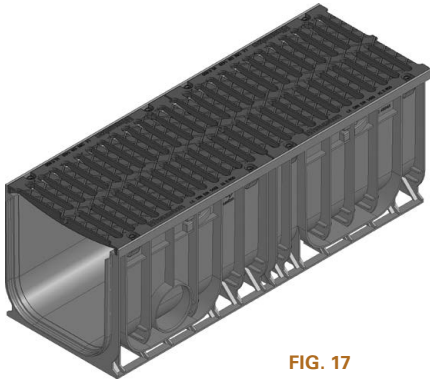


FIG. 17

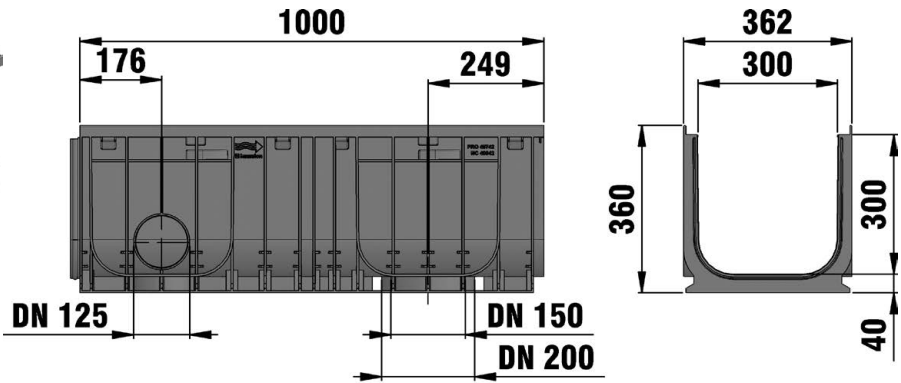


TABLE 7 RECYFIX® NC 300 E 600kN

Code	Description	Length mm	Width mm	Height mm	Drainage cross-sect cm <sup>2</sup>	Intake cross-sect cm <sup>2</sup> /m	Weight kg	Figure #
CHH01401914	Channel NC 300 DI Slotted 18mm Type 010	1000	362	360	873	1293	35	17

## Accessories



FIG. 18

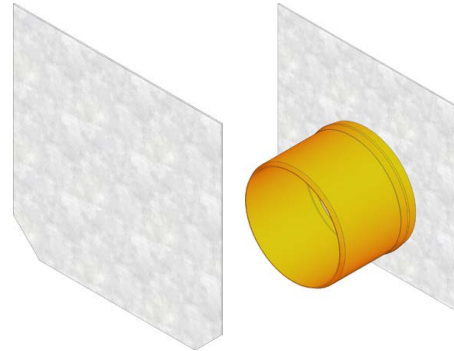
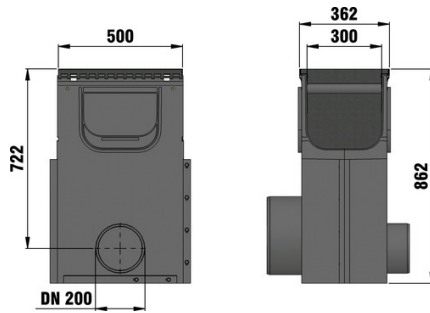


FIG. 19

FIG. 20

TABLE 8 RECYFIX® NC 300 E 600kN Accessories

Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01401385	Trash Box NC 300 DI Slotted 18mm with Mud Bucket	500	362	862	18
CHH01401390	End Cap PRO NC 300 Galv Blank Type 010	2	360	360	19
CHH01401395	End Cap PRO NC 300 Type 010 175mm PVC Outlet	154	360	360	20

# Installation Guidelines

**Installation example  
concrete class D 400 - E 600**

3-5 mm durable overhang

Expansion joint

Concrete wearing layer

Base course

Frost resistant sub-base

reinforcing steel bar  $\varnothing$  10 mm every 40 cm

\* y = Channel height plus camber

Category according to EN 1433 / DIN 19580	<b>A 15</b>	<b>B 125</b>	<b>C 250</b>	<b>D 400**</b>	<b>E 600</b>	<b>F 900</b>	Applying to following systems:
Foundation: width x / thickness z / height y (in cm)				15 / 15 / *	15 / 20 / *		<b>RECYFIX NC 100, 150, 200, 300</b>
The named concrete quality is a minimum quality***							
EN 206-1 / DIN 1045-2	quality of concrete stretcher			C 30/37 XF 4	C 30/37 XF 4		
	with danger of frost on the lateral support			C 30/37 XD 1	C 30/37 XD 1		
The installation examples / advise constantly are adapted to the technical conditions. With new editions older expenditures lose their validity. Before planning or installation please verify the current version at <a href="http://www.hauraton.com">www.hauraton.com</a> in building construction is a sealing layer below the channels necessary.				Date: 24.10.2018	Our general installation instructions apply.		Format DIN A4
** Not for use in continuously frequented areas of carriageways or motorways *** European Standard. C 20/25 = minimum 25mPa, C 30/37 = minimum 37mPa				0000049541.DWG EBBw			scale 1:5
				RF-NC-100 Typ 010 Rinnenunterteil Einbaubeispiel Klasse D 400 in Beton		 Unit 4, Frenchs Avenue LU6 1BH Dunstable / Bedfordshire Tel. +44 1582 50 1380 technical@hauraton.co.uk	

**Installation example  
in asphalted areas class D 400 - E 600**

3-5 mm durable overhang

Bituminous joint strip

Wearing course

Binder course

Base course

Frost resistant sub-base

reinforcing steel bar  $\varnothing$  10 mm every 40 cm

\* y = Channel height plus camber

Category according to EN 1433 / DIN 19580	<b>A 15</b>	<b>B 125</b>	<b>C 250</b>	<b>D 400**</b>	<b>E 600</b>	<b>F 900</b>	Applying to following systems:
Foundation: width x / thickness z / height y (in cm)				15 / 15 / *	15 / 20 / *		<b>RECYFIX NC 100, 150, 200, 300</b>
The named concrete quality is a minimum quality***							
EN 206-1 / DIN 1045-2	quality of concrete stretcher			C 30/37 XF 4	C 30/37 XF 4		
	with danger of frost on the lateral support			C 30/37 XD 1	C 30/37 XD 1		
The installation examples / advise constantly are adapted to the technical conditions. With new editions older expenditures lose their validity. Before planning or installation please verify the current version at <a href="http://www.hauraton.com">www.hauraton.com</a> in building construction is a sealing layer below the channels necessary.				Date: 24.10.2018	Our general installation instructions apply.		Format DIN A4
** Not for use in continuously frequented areas of carriageways or motorways *** European Standard. C 20/25 = minimum 25mPa, C 30/37 = minimum 37mPa				0000049864.DWG EBBw			scale 1:5
				RF-NC-100 Typ 010 Rinnenunterteil Einbaubeispiel Klasse D 400 in Asphalt		 Unit 4, Frenchs Avenue LU6 1BH Dunstable / Bedfordshire Tel. +44 1582 50 1380 technical@hauraton.co.uk	

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