

Top X

Technical Guide D17.2

The ideal drainage channel for houses, courtyards, patios and gardens.



08.23 | DRAINAGE | D172 HAURATON TOP X

Applications

Garage entrances
 Courtyards
 Terraces
 Gardens
 Parks

Product Attributes

Choice of 2 grates – slotted and mesh
 Load rated to Class A 15kN
 Galvanised grating or PP Composite
 Environmentally friendly with 100% recycled PP channel
 Low weight
 High stability and functionality

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.

TOP X

Designed for houses, courtyards, patios and gardens.

Applications

- Garage entrances
- Courtyard areas
- Terraces
- Gardens
- Parks

Solutions

- High stability and functionality
- Low weight
- Preformed supports for simple pipe connection
- Gratings made of recycled composite or galvanised steel

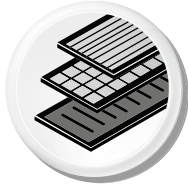
Requirements

- Continually withstands daily loads
- Be easy to transport and simple to install
- Be resistant to environmental effects (frost, heat and moisture)
- Be visually pleasing



FIG. 1 Private courtyard

The benefits of TOP X Channels



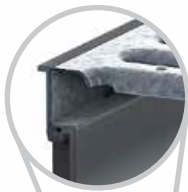
Numerous design possibilities

- Different grating designs: recycled composite or galvanised steel
- = Flexibility**



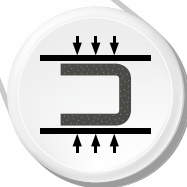
Low weight ensures easy handling on site

- Significantly lighter than channels made of concrete
 - Especially easy to transport and process
- = Lower costs**



Locking mechanism

- Boltless locking safe clamping
- = Safety**



High-quality material

- Robust and unbreakable
 - Elastic and especially resistant recycled composite
- = Safety**



Round channel

- Better hydraulic performance
- = Safety**



Quick installation

- Easy to process
 - Tongue and groove system for immediate laying
 - Direct paving possible
- = Cost saving**

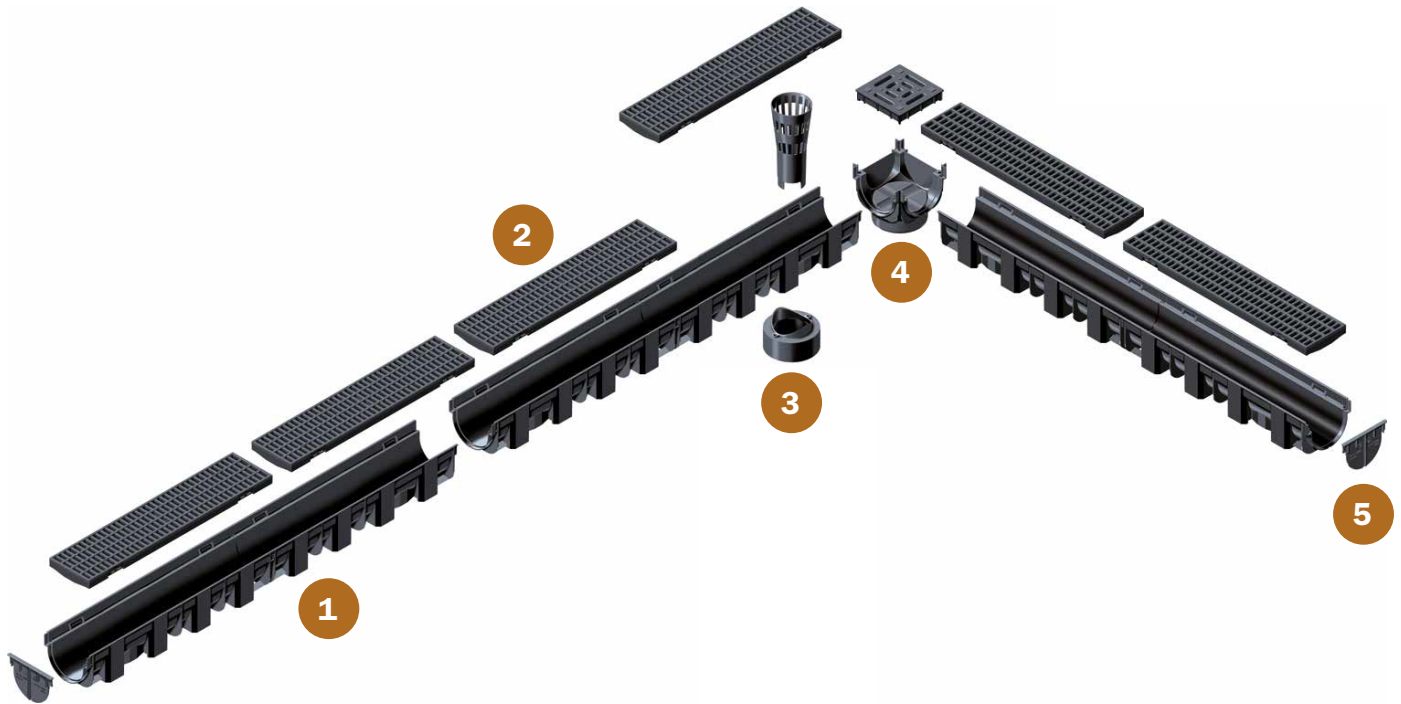
Components

Load Classes

European Standard EN 1433



Load Class A 15kN
Approximate Wheel Load 330kg



- 1** Channels made of PP recycled composite, according to EN 1433, CE-conform, with tongue and groove connection for exact installation
- 2** Various grating options - made of recycled composite or galvanised steel
- 3** Various connection possibilities through channel or universal box
- 4** TOP X universal box can be used as corner unit or trash box
- 5** Closed end caps

TOP X

Class A 15kN

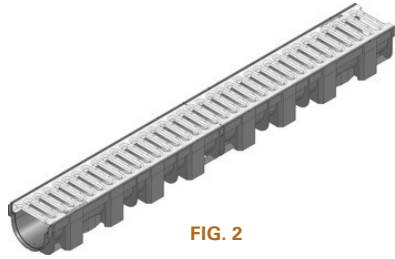


FIG. 2

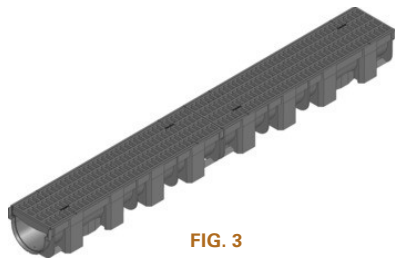
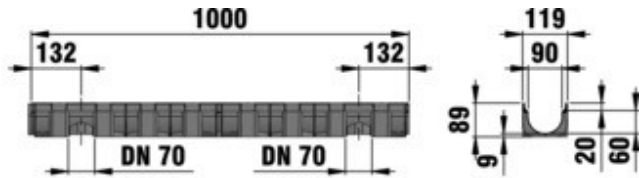


FIG. 3

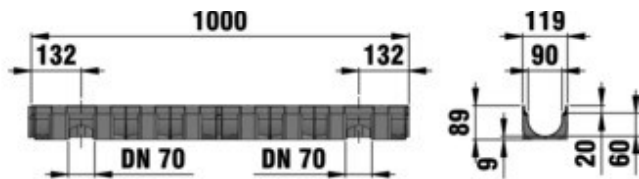


TABLE 1 TOP X A 15kN

Item Code	Description	Intake cross-sect cm ² /m	Drainage cross-sect cm ²	Weight kg	Figure #
CHH01402100	Channel & Grate TOP X A 15kN Galvanised Slotted 9mm	256	45	2.0	2
CHH01402102	Channel & Grate TOP X A 15kN PP Composite Black Mesh 8x21mm	505	45	1.6	3

Accessories

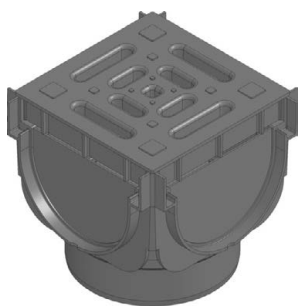


FIG. 4

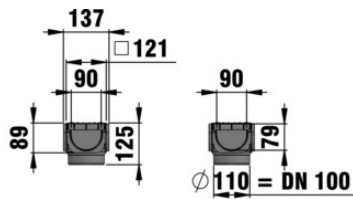


FIG. 5

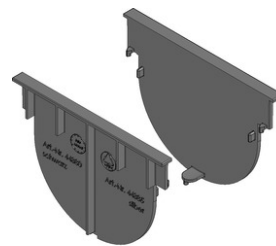


FIG. 6

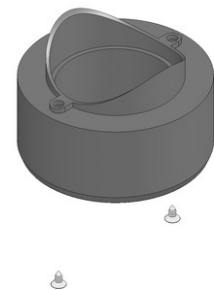


TABLE 2 TOP X A 15kN Accessories

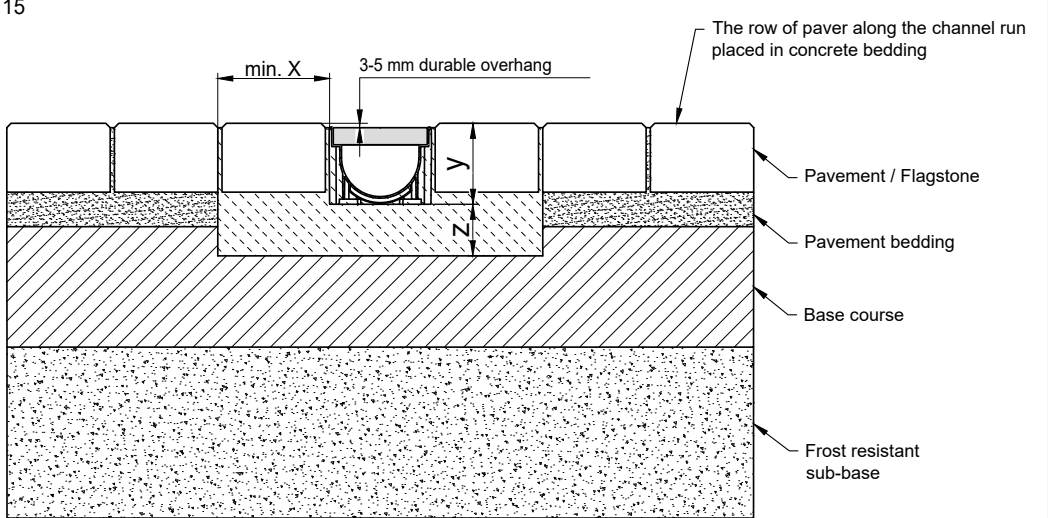
Item Code	Description	Length mm	Width mm	Height mm	Figure #
CHH01402105	Corner Sump TOP X Black A 15kN	137	137	125	4 & 5
CHH01402109	Connection Set TOP X Black A 15kN	-	-	-	6

Installation Guidelines

123456

ABCABC

Installation example
Pavement class A 15
Car trafficked**



The row of paver along the channel run placed in concrete bedding


Pavement / Flagstone

Pavement bedding

Base course

Frost resistant sub-base

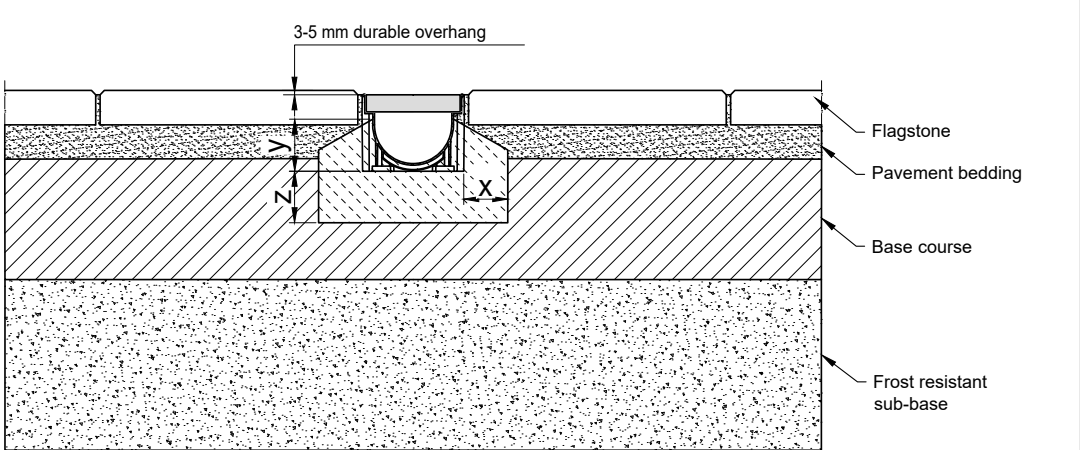
* y = Channel height plus camber

Category according to EN 1433 / DIN 19580		A 15	B 125	C 250	D 400**	E 600	F 900	Applying to following systems: TOP X
Foundation: width x / thickness z / height y (in cm)		10 / 6 / *						
The named concrete quality is a minimum quality***								
EN 206-1 / DIN 1045-2	without danger of frost on the lateral support	C 20/25						
	with danger of frost on the lateral support	C 30/37 XD 1						
<small>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 www.hauraton.com in building construction is a sealing layer below the channels necessary.</small>		Date: 25.10.2018		Our general installation instructions apply.		Format DIN A4		 <p>Unit 4, Frenchs Avenue LU6 1BH Dunstable / Bedfordshire Tel. +44 1582 50 1380 technical@hauraton.co.uk</p>
		0000079255.dwg EBBw				scale 1:5		
		RF-TOP X Rinnenunterteil, schwarz, Einbaubeispiel Klasse A 15 PKW befahrbar in Pflaster						

123456

ABCABC

Installation example
Flagstone class A 15




Flagstone

Pavement bedding

Base course

Frost resistant sub-base

* y ≥ Channel height - 4 cm

Category according to EN 1433 / DIN 19580		A 15	B 125	C 250	D 400**	E 600	F 900	Applying to following systems: TOP X
Foundation: width x / thickness z / height y (in cm)		5 / 6 / *						
The named concrete quality is a minimum quality***								
EN 206-1 / DIN 1045-2	without danger of frost on the lateral support	C 20/25						
	with danger of frost on the lateral support	C 30/37 XD 1						
<small>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 www.hauraton.com in building construction is a sealing layer below the channels necessary.</small>		Date: 25.10.2018		Our general installation instructions apply.		Format DIN A4		 <p>Unit 4, Frenchs Avenue LU6 1BH Dunstable / Bedfordshire Tel. +44 1582 50 1380 technical@hauraton.co.uk</p>
		0000079230.dwg EBBw				scale 1:5		
		RF-TOP X Rinnenunterteil, schwarz, Einbaubeispiel Klasse A 15 in großformatige Platte						

Installation Guide



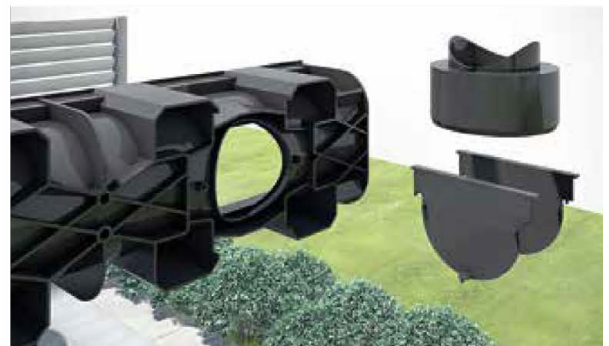
Produce trench in which to lay channel with frost resistant sub base.



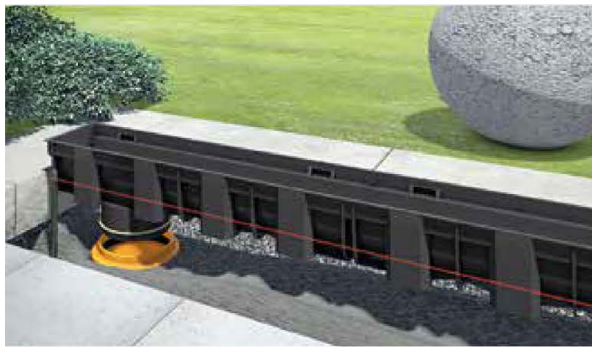
Fill with concrete and compress to foundation.



Produce connection openings.



Fit accessories.



Lay channels.



Haunch the concrete.



Install surface coating.



FIG. 8 TOP X Channel & Grate A 15kN PP Composite Black Mesh

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