AQUAFORM®

RAINWATER DRAINAGE PRODUCT RANGE

GH • FORM

SLA115526

AQUAFORM®

RAINWATER DRAINAGE PRODUCT RANGE

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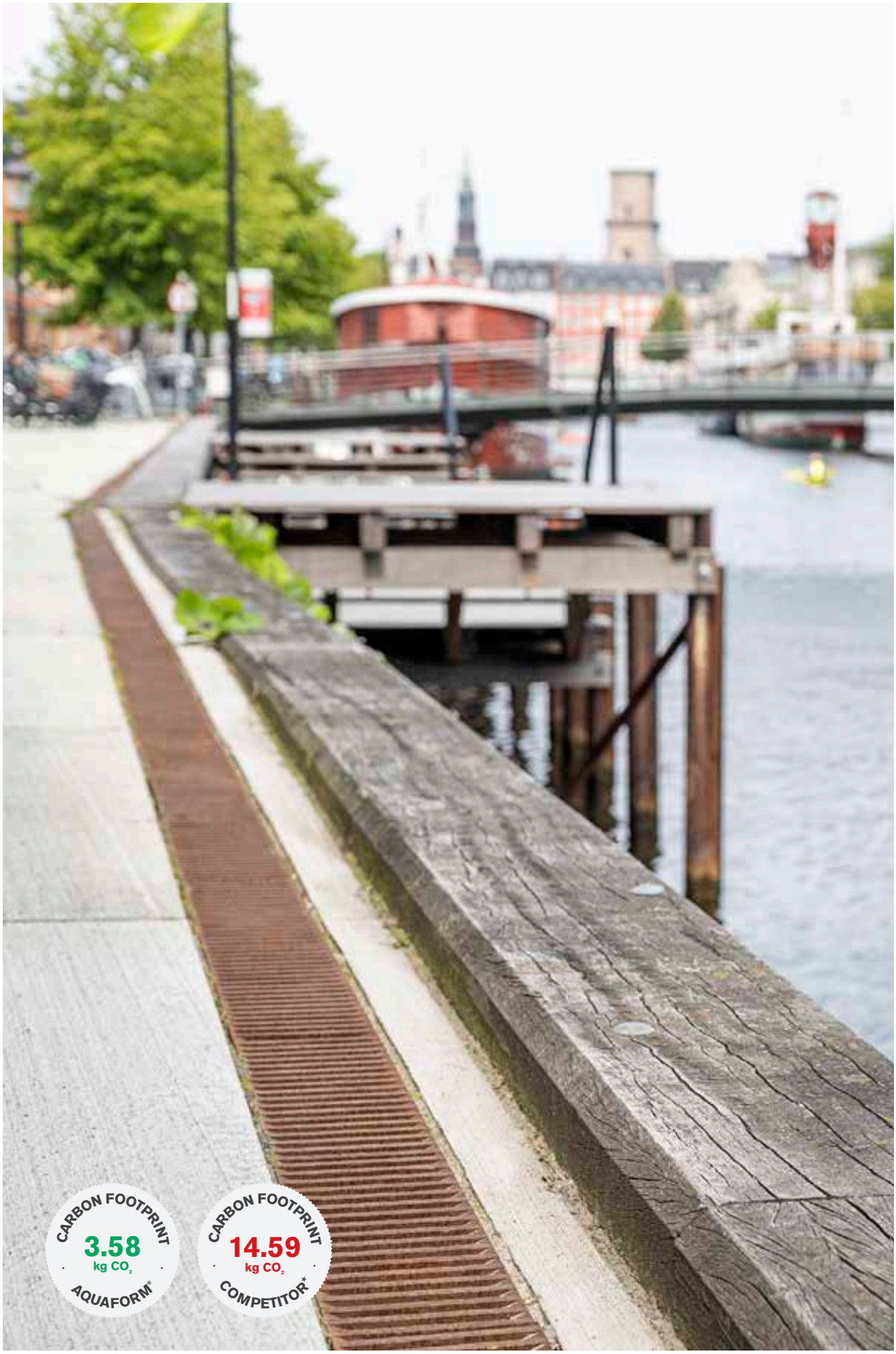
GH • FORM


CARBON FOOTPRINT
3.58
kg CO_2
AQUAFORM®
CARBON FOOTPRINT
14.59
kg CO_2
COMPETITOR*

AT 116023

EPD-CERTIFIED GRATES

SUSTAINABLE PRODUCTION

Aquaform® is GH Form's range of rainwater drainage products. Provice has performed an analysis of GH Form's products through the European Fund for Regional Development **"We invest in your future"** programme.

"In our analysis, we compared GH Form's products/production with that of an EU competitor in order to quantify the impact of using 100% recycled iron produced at the GH Form's Ferrofoss foundry.

The analysis concluded that the use of 100% recycled iron is a considerable factor with regard to overall environmental impacts.

The carbon footprint for GH Form's manufacture of a linear drainage grate is 3.58 kg CO^2 . Meanwhile, the footprint of an equivalent product made by a European competitor is 14.59 kg CO^2".

Unlike GH Form, the comparable European competitor used 35% recycled iron and 65% pig iron. Their process also involves a significant amount more transport.
The calculation was performed in the SigmaPro LCA calculation tool.

*Carbon footprint is calculated from a life cycle perspective and is calculated for a single Aquaform® linear drainage grate weighing 5.5 kg from GH Form against that of one from an equivalent European competitor.

ZERO-CARBON network

DEN EUROPÆISKE UNION
Den Europæiske Fond for Regionaludvikling
Vi investerer i din fremtid

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FREMTIDENS GÅRDHAVE / TEGNESTUEN SLA / COPENHAGEN

Campus Linear Drainage Grate is for use in the drainage of roadways, squares and other paved areas where a linear drainage system would be appropriate.

SLA115502

Campus linear drainage grate and paving slab, mounted flush in the pavement. Note the pavement - grate - pavement execution with no edges or level variation on both sides. The longitudinal openings enable surface drainage along the façade and walkway area.

CARBON FOOTPRINT 4.29 kg CO_2 AQUAFORM®

CAMPUS LINEAR DRAINAGE

SLA ARKITEKTER

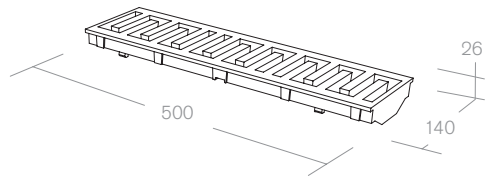
Campus linear drainage grates and paving slabs are made of quality SG iron and can withstand loads from heavy vehicles.

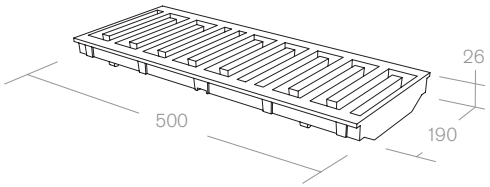
Both the linear drainage grate and the paving slab are attached to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate / paving slab is on the channel. The grate and paving slab are both designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate / paving slab.
When laid in asphalt, the concrete polymer channel is fitted with a rust-resistant steel edge on one or both sides.

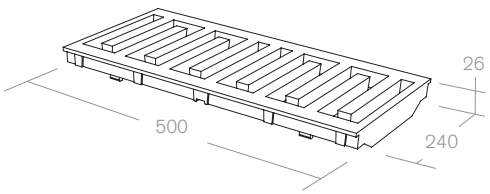
Campus linear drainage can be manufactured to a desired radius according to project requirements, allowing the grate or paving slab to be laid in close longitudinal proximity where curvature is present.

Campus linear drainage grates can be advantageously combined with Campus paving slabs at entrances and other transitions.

Campus linear drainage is available in untreated cast iron in 140 mm, 190 mm and 240 mm widths.







SLA115502	Campus linear drainage grate / 240 x 500 x H 26 mm	7.35 kg CO_2
SLA115503	Paving slab for channels / 240 x 500 x H 26 mm	7.35 kg CO_2
SLA115504	Paving slab for channels / 140 x 500 x H 26 mm	
SLA115505	Campus linear drainage grate / 140 x 500 x H 26 mm	4.29 kg CO_2
SLA115526	Campus linear drainage grate / 190 x 500 x H 26 mm	6.31 kg CO_2
SLA115527	Paving slab for channels / 190 x 500 x H 26 mm	

All Campus grates are compatible with our polymer channels and plinth channels.

epddanmark

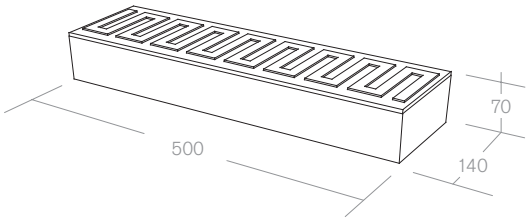
SLA124011

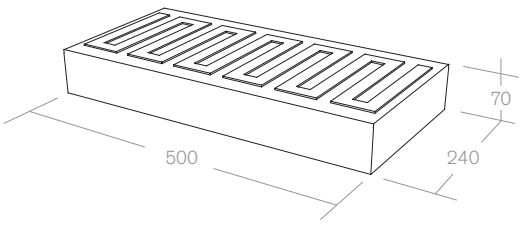
SLA124012

SLA124011

CAMPUS PAVING TILES

SLA ARKITEKTER





Campus paving tiles feature the same pattern as Campus linear drainage. When linear drainage and paving tiles are laid in continuation of each other, this brings cohesion to such a stretch of paving.

Campus paving tiles are available in untreated cast iron in 140 mm, 190 mm and 240 mm widths.

SLA124010	Campus paving tile / 240 x 500 x H 70 mm	9.75 kg CO_2
SLA124012	Campus paving tile / 190 x 500 x H 70 mm	3.51 kg CO_2
SLA124011	Campus paving tile / 140 x 500 x H 70 mm	

epddanmark

Täby Torv

SLA115525

SLA115525

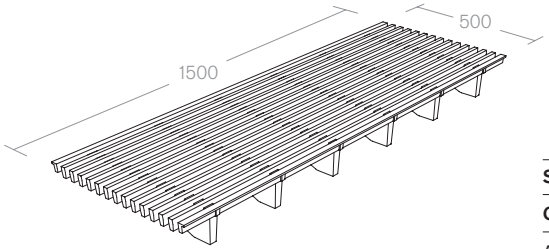
SLA115525

CAMPUS STRAIGHT LINEAR DRAINAGE

SLA ARKITEKTER

The Campus Straight linear drainage grate is made of SG-grade iron. The grate can withstand the weight of lighter vehicles, and is secured to the channel with springs. It is designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

The grate is part of the Campus range and fits the dimensions and design of Campus tree grates.



SLA115525	Campus Straight linear drainage grate / 500 x 1500 mm	7,15 kg CO_2
GHA50	Water channel 500 x1000 mm, Concrete polymer	

All Campus grates are compatible with our polymer channels and plinth channels.

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“Linear” linear drainage, Munkebjerg Park, Odense HLA115503

For the "Linear" linear drainage grate, we developed a closing element to cover the end cap.

HLA115505

LINEAR LINEAR DRAINAGE

HENNING LARSENS ARCHITECTS

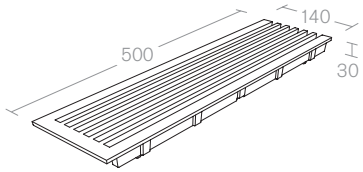
"Linear" linear drainage grates and paving slabs are made of SG-grade iron and can withstand loads from heavy vehicles.

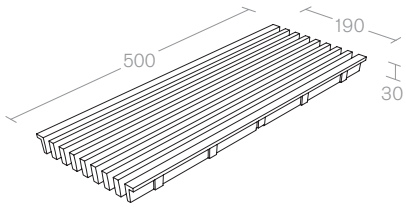
The linear drainage grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate slab is on the channel.

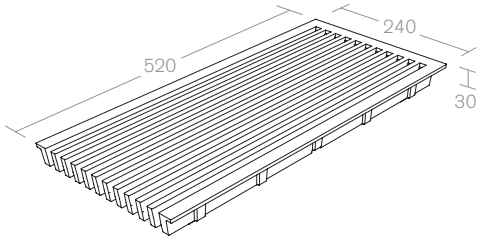
The grate and paving slab are designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

The grating with no finishing edge has continual longitudinal ribs, which means that the ribbing continues for an uninterrupted pattern the entire length of the linear drainage system. The run can be terminated at both ends with a with a closed edge grate.

"Linear" linear drainage grates are available in untreated cast iron in 140 mm, 190 mm and 240 mm widths.







HLA115503	"Linear" linear drainage grate 140 x 500 x H 30 mm	6.50 kg CO_2
HLA115507	"Linear" linear drainage grate 190 x 500 x H 30 mm	7.48 kg CO_2
HLA115504	"Linear" linear drainage grate 240 x 500 x H 30 mm	6,50 kg CO_2
HLA115505	"Linear" linear drainage grate 140 x 520 x H 30 mm with end flange	7.48 kg Co_2
HLA115508	"Linear" linear drainage grate 190 x 520 x H 30 mm with end flange	6.83 kg Co_2
HLA115506	"Linear" linear drainage grate 240 x 520 x H 30 mm with end flange	6.83 kg Co_2
HLA124010	"Linear" paving tile 140 x 500 x H 70 mm	3.25 kg CO_2
HLA124012	"Linear" paving tile 240 x 500 x H 70 mm	4.50 kg CO_2

All "Linear" grates are compatible with our polymer channels and plinth channels.

epddanmark

Dock-Line linear drainage grate in untreated cast iron. AT116015

Dock-Line linear drainage grate in rust-resistant steel.

AT116022

DOCK-LINE LINEAR DRAINAGE

ARKITEMA

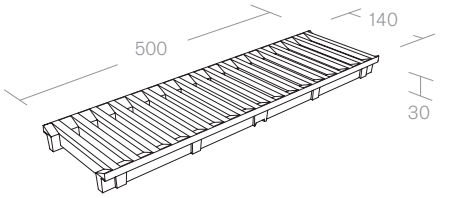
Dock-Line linear drainage comes in SG-grade steel and rust-resistant steel. Both grades can withstand the weight of heavy vehicles.

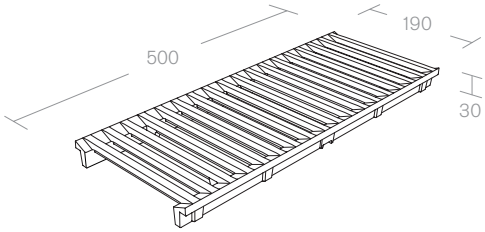
Both the linear drainage grate and the paving slab are attached to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate / paving slab is on the channel.

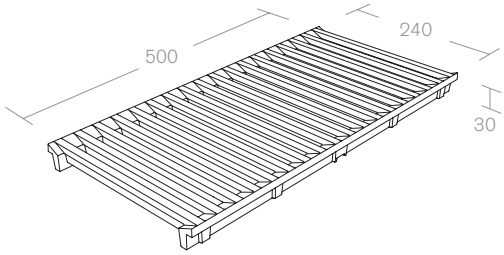
The grate and paving slab are both designed to conceal the edges of the water channel underneath. Paving can be laid all the way up to the grate.

When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

Dock-Line linear drainage grates are available in untreated cast iron and rust-resistant steel in
140 mm, 190 mm and 240 mm widths. The paving slab is available in 140 mm width. The paving tile is available in 140 mm and 190 mm widths.







AT115504	Dock-Line paving slab / 140 x 500 x H 30 mm, rust-resistant steel	
AT115505	Dock-Line paving slab for channels / 140 x 500 x H 30 mm	
AT116015	Dock-Line linear drainage grate / 190 x 500 x H 30 mm	3.77 kg CO_2
AT116021	Dock-Line linear drainage grate / 140 x 500 x H 30 mm	2.30 kg CO_2
AT116022	Dock-Line linear drainage grate / 140 x 500 x H 30 mm, rust-resistant steel	3,07 kg CO_2
AT116023	"Dock-Line" linear drainage grate / 240 x 500 x H 30 mm	4.68 kg CO_2
AT124011	Dock-Line paving tile / 140 x 500 x H 70 mm	3.25 kg CO_2
AT124013	Dock-Line paving tile / 190 x 500 x H 70 mm	6.24 kg CO_2

All Dock-Line grates are compatible with our polymer channels and plinth channels.

epddanmark

Täby Torv

AT 116024

CARBON FOOTPRINT 4.68 kg CO_2 AQUAFORM®

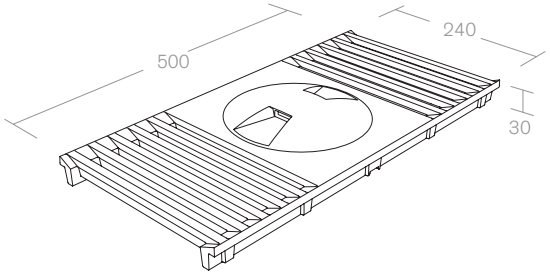
AT116024

DOCK-LINE LINEAR DRAINAGE

WITH PATH LIGHTING

Dock-Line linear drainage grates with path lighting can be supplied with LED diodes fitted in cast iron housings. These can withstand heavy traffic loads.

Path lighting is made in 12 or 24 Volt as standard. The light source is hermetically sealed in a rust-resistant tube and uses an epoxy-cast reflector. The product is air and watertight to IP67 classification. 4 x 4 mm^2 can be looped on the product.



AT116024	Dock-Line linear drainage for path lighting 240 x 500 mm 4.68 kg CO_2

The pattern on the Water Cell linear drainage grate is repeated in a paving tile of the same format. In this way, an interaction can be created in the paving between the grates that allows the water to pass through while using tiles that form a closed surface.

SLA115511

The Water Cell linear drainage grate has an organic pattern and can be laid in long unbroken runs.

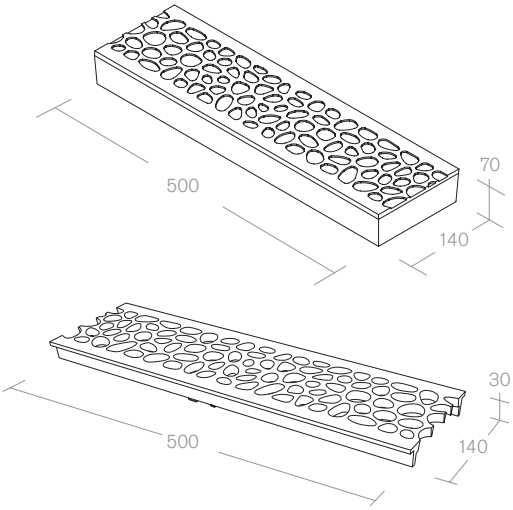
The linear drainage system is available in cast iron and bronze and comes in 140 mm and 240 mm widths.

SLA115511

SLA125512

WATER CELL LINEAR DRAINAGE

SLA ARKITEKTER



Water Cell linear drainage grates and paving slabs are made of SG-grade iron and can withstand loads from heavy vehicles. The grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate is on the channel.

The linear drainage grate is designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. The grate's small tolerances means that they have to be laid in close longitudinal proximity.
When laid in asphalt, the concrete polymer can be fitted with a rust-resistant steel edge on one or both sides.

SLA115511	Water Cell linear drainage grate / 140 x 500 x H 30 mm	2.21 kg CO_2
SLA125512	Water Cell linear drainage grate / 140 x 500 x H 30 mm, Bronze	2.47 kg CO_2
SLA115514	Water Cell linear drainage grate / 240 x 500 x H 30 mm	5.74 kg CO_2
SLA124015	Water Cell paving tile / 140 x 500 x H 70 mm	

All Water Cell grates are compatible with our polymer channels and plinth channels.

epddanmark

The Jugend grate was designed for Sønderborg's new town centre by SLA landskabsarkitekter. SLA115515

Jugend linear drainage grate in patinated cast iron at Bantorget square in Lund, Sweden.

SLA115515

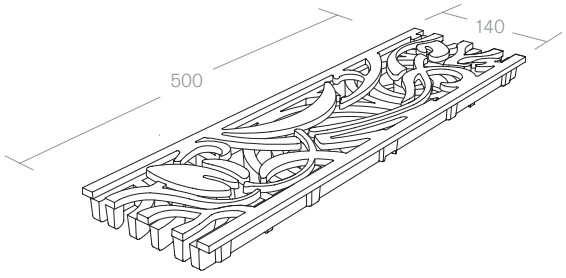
JUGEND LINEAR DRAINAGE

SLA ARKITEKTER

The Jugend linear drainage grate was developed in collaboration with Sønderborg Municipality. Made of quality SG iron , these grates can withstand loads from heavy vehicles.

The grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate is on the channel.

The grate and paving slab are designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.



SLA115515	Jugend linear drainage grate / 140 x 500 mm	3.84 kg CO_2

All Jugend grates are compatible with our polymer channels and plinth channels.

epddanmark

Helsingborg Harbour KJ115501

Orbit linear drainage grates were developed for the Urban Mediaspace at Aarhus harbour in collaboration with Kristine Jensens Tegnestue.

KJ115501

KJ115501

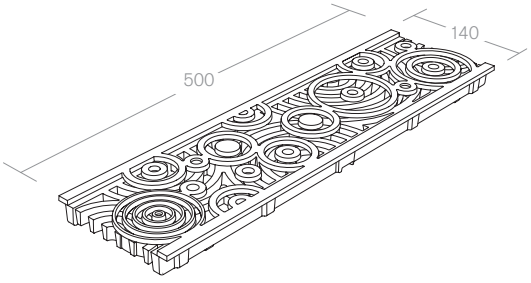
ORBIT LINEAR DRAINAGE

KRISTINE JENSENS TEGNESTUE

The Orbit linear drainage grate is made of SG-grade iron and can withstand heavy traffic loads. The linear drainage grate is available in untreated cast iron in 140 mm width.

The grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate is on the channel.

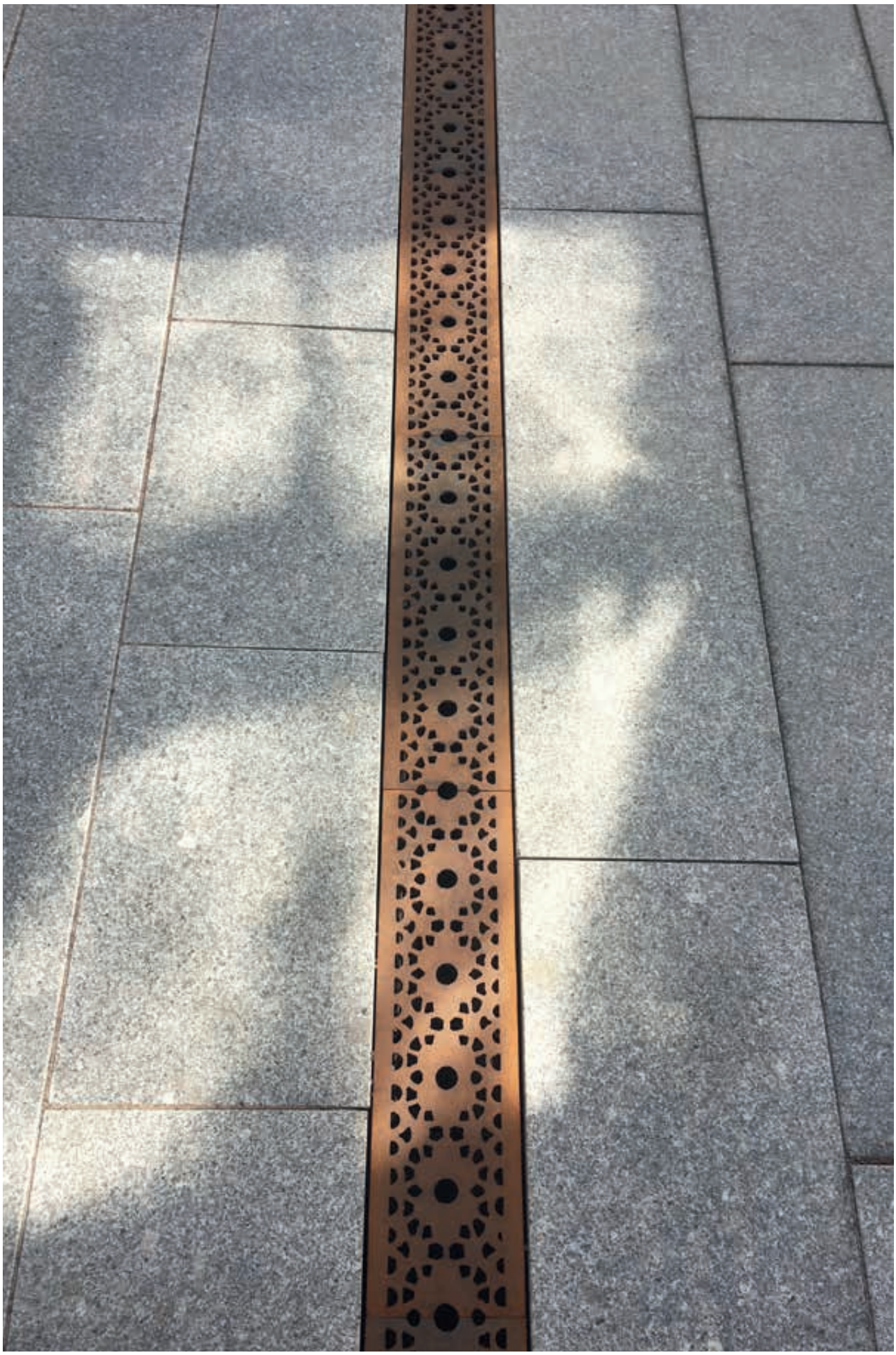
The grate and paving slab are designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.



KJ115501	Orbit Linear drainage grate / 140 x 500 mm	3,64 kg CO_2

All Orbit grates are compatible with our polymer channels and plinth channels.

epddanmark



Vadstena Gågata (pedestrian street)

GH115501

The Vadstena linear drainage grate was developed for Vadstena Municipality in collaboration with Svante Dahlgren from Rambøll in Linköbing.

GH115501

VADSTENA LINEAR DRAINAGE

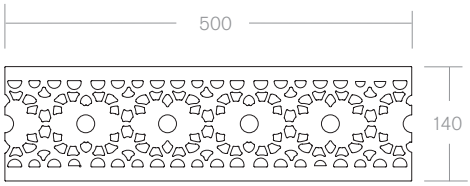
RAMBØLL

Vadstena linear drainage grates and paving slabs are made of SG-grade iron and can withstand loads from heavy vehicles.

The grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate is on the channel.

The linear drainage grate is designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

The linear drainage grate is available in untreated cast iron in 140 mm width.



GH115501	Vadstena linear drainage grate / 140 x 500 mm	2.41 kg CO_2

All Vadstena grates are compatible with our polymer channels and plinth channels.

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Square linear drainage is one of the features of the pedestrian street in Horsens.

SC115503

Square linear drainage grate supplemented by Campus tree grate.

SC115503

SC115503

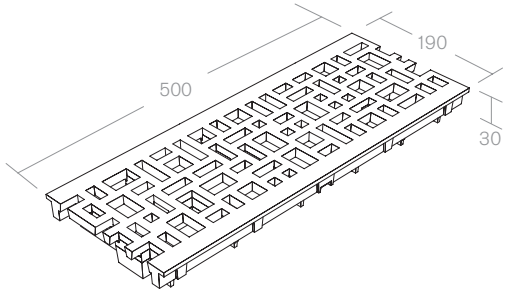
SQUARE LINEAR DRAINAGE

SCHUL LANDSKABSARKITEKTER

The Square linear drainage grate is made of SG-grade iron.
The grate can withstand the weight of heavy vehicles.

The grate is secured to the channel with a rust-resistant steel spring.
The locking spring is concealed when the grate is on the channel.

The linear drainage grate is designed to conceal the edges of the water channel underneath. Paving can thus be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.



SC115503	Square linear drainage grate / 190 x 500 x H 30 mm	5.53 kg CO_2

All Square grates are compatible with our polymer channels and plinth channels.

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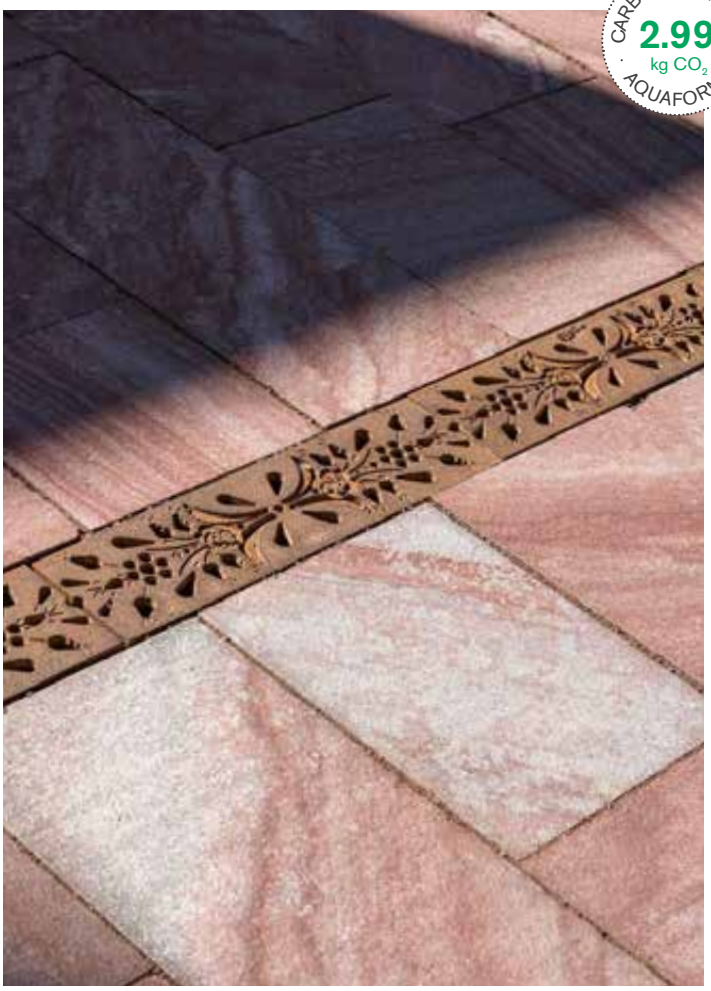
Mora linear drainage grate with end cap and associated Mora paving tile.

GH115605 & GH125505

Mora was developed for Mora Municipality in collaboration with Sweco in Falun.



GH115605

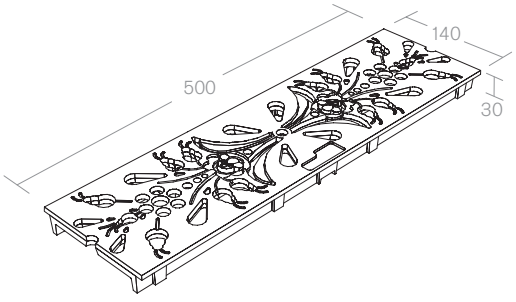
MORA LINEAR DRAINAGE

SWECO

The grate is secured to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate is on the channel.

The linear drainage grate is designed to conceal the edges of the water channel underneath. Paving can be laid all the way up to the grate. When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

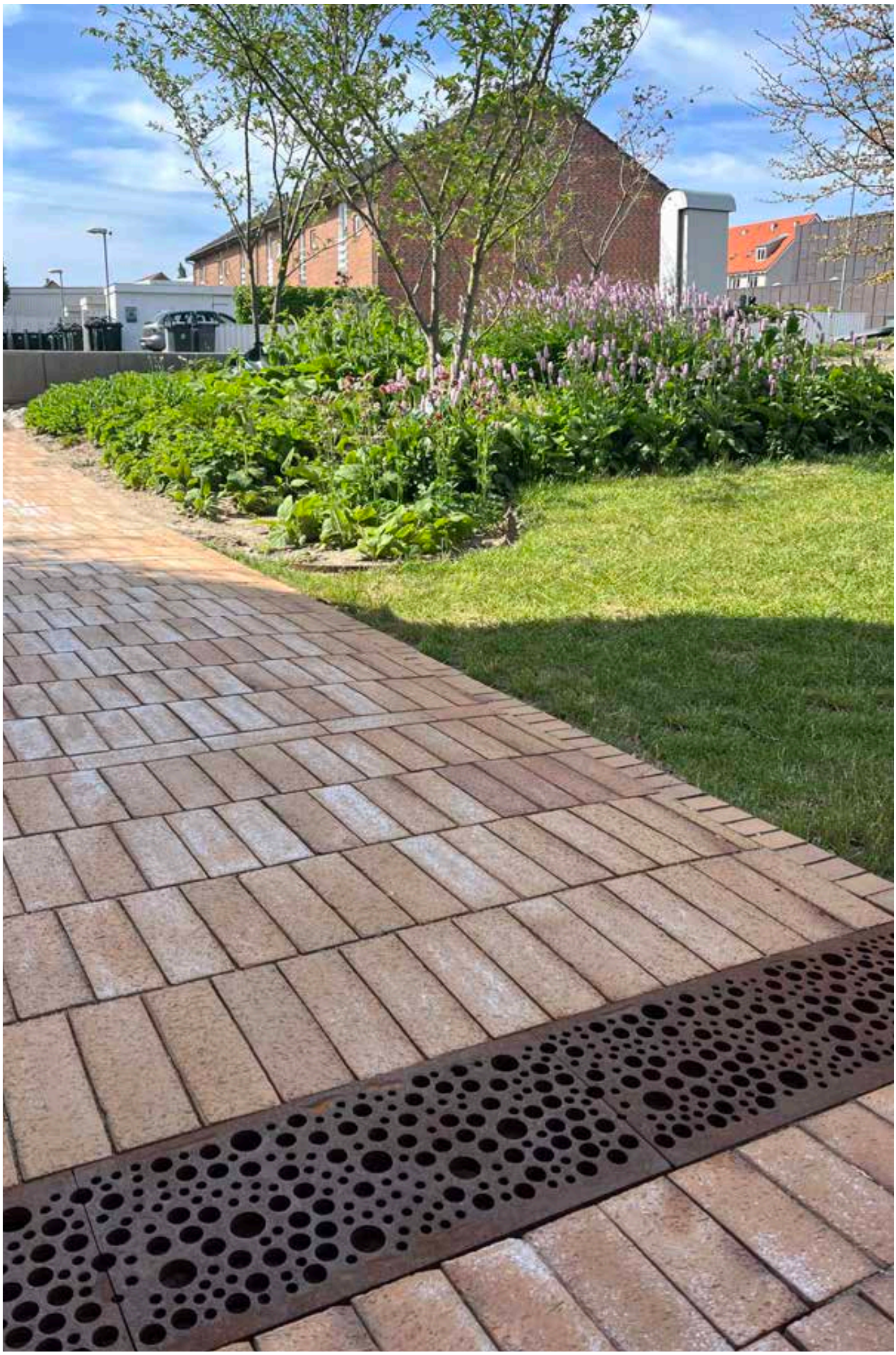
The Mora linear drainage grate and paving tile feature the same pattern. When laid as extensions of each other, they form a section with a cohesive pattern.



GH115605	Mora linear drainage grate 140 x 500 x H 30 mm	2.99 kg CO_2
GH125505	Mora paving tile 140 x 500 x H 70 mm	3.51 kg CO_2

All Mora grates are compatible with our polymer channels and plinth channels.

epddanmark



Kulturhus Risbjerggaard in Hvidovre, designed by Vandkunstnen. GH Form supplied products in the form of: socket channels, tactile guided walkways for the sight-impaired, tree grates and flower planters.

HJ115505

Drops linear drainage can be made to the radius required for the project to ensure that the grate / paving slab can be laid in close longitudinal proximity.

HJ115505

HJ115505

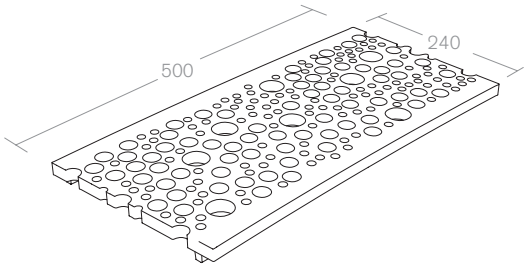
DROPS LINEAR DRAINAGE

HENRIK JØRGENSEN LANDSKAB A/S

Both grate and slab are attached to the channel with a rust-resistant steel spring. The locking spring is concealed when the grate / slab is on the channel.

The grate and slab are designed to conceal the edges of the water channel underneath. Paving can therefore be laid all the way up to them.
When laid in asphalt, the channel is fitted with a rust-resistant steel edge on one or both sides.

Drops linear drainage grates can be advantageously combined with Drops paving slabs at entrances and other transitions.

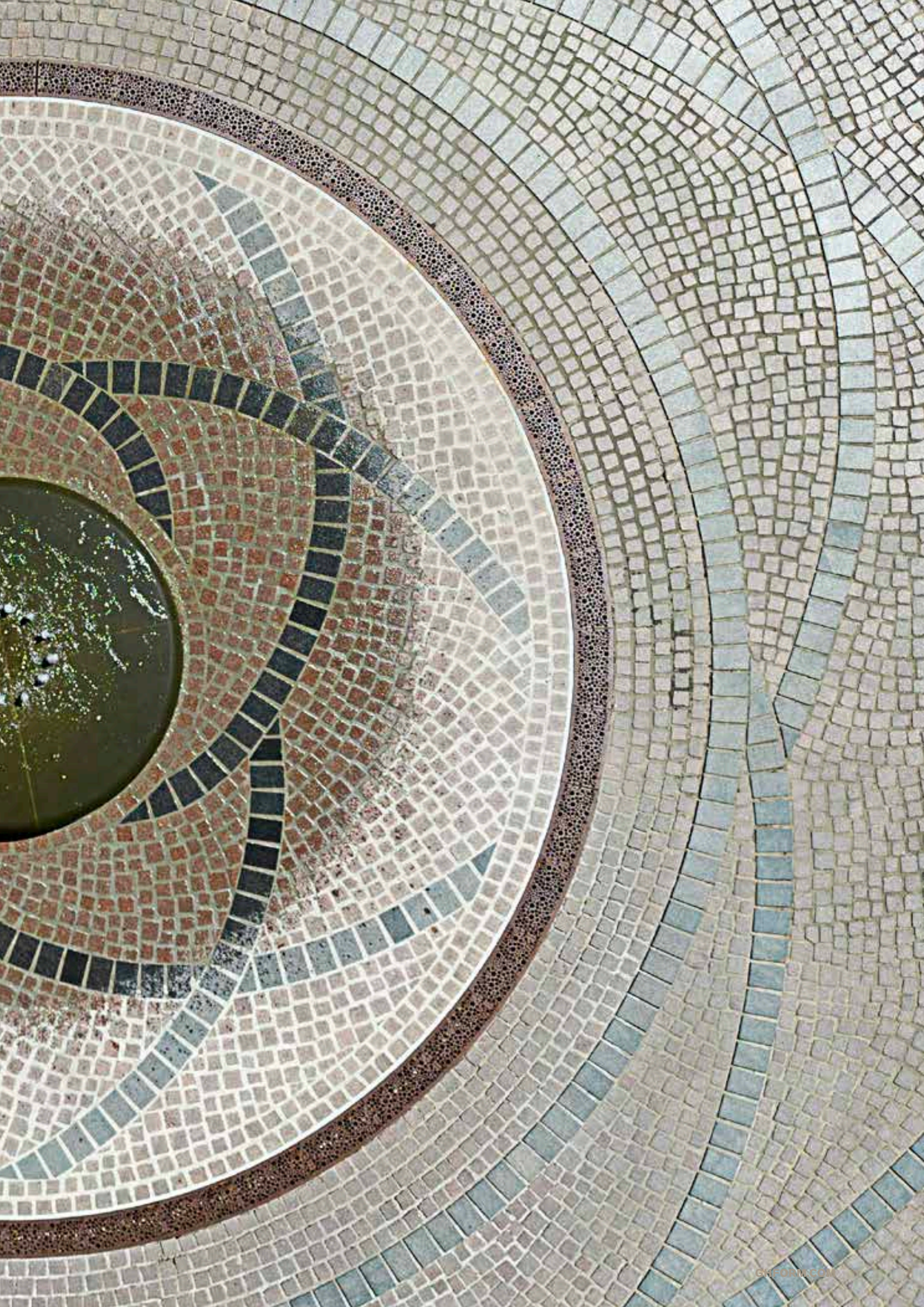


HJ115503	Drops paving slab for channels 500 x 500 mm	5.53 kg CO_2
HJ115505	Drops linear drainage grate 240 x 500 mm	4.94 kg CO_2

All Drops grates are compatible with our polymer channels and plinth channels.

epddanmark

BRYGGERNES PLADS / NY CARLSBERG / FREDERIKSBERG



SLA115506

The Klima linear drainage grate was developed by SLA Arkitekter in collaboration with GH Form and the Danish Technological Institute.

SLA115508

SLA115506
GH360

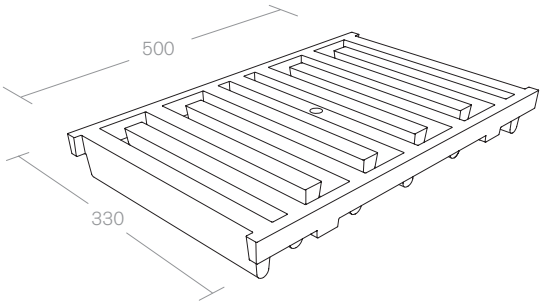
KLIMA LINEAR DRAINAGE

LOADS UP TO 90 TONS

Klima linear drainage grates and cast iron channels are made of quality SG iron and can withstand loads from heavy vehicles.

The grate lies flush with the upper edge of the cast iron channel. This allows asphalt to be laid right up to the upper edge. The asphalt can be rolled without deforming the channel. The grate is provided with an anti-slip pattern on the upper side.

When combined, the grate with its strong dimensions and the channel with its material-optimised, profiled design constitute a very useful and well-thought-out product. The channel can be laid with no concrete recasting required and can withstand a pressure of 90 tons from all sides. The Danish Technological Institute conducted this test in accordance with DS/EN 1433:2002, clause 7.15.



SLA115508	Klima linear drainage grate 330 x 500 mm	90 tons
SLA115506	Campus Linear drainage grate 330 x 500 mm	60 tons
GH360	Water channel 360 x 1000 x 320 mm	
GH3610	End cap 360 mm, closed	untreated cast iron

All Klima and Campus grates are compatible with our polymer channels and plinth channels.

epddanmark

The outlet fits a Ø110-160 mm drain pipe. The connector pipe can be placed on site as needed, as the final location of the well can vary from project to project.

GH10053

SLOT DRAIN

GH FORM

The purpose of a slot drain is to provide drainage through a narrow aperture. The width of the aperture in the cast iron crown at the top of the slot drain can be differentiated so the width of the slot drain and channel itself remains unchanged throughout an entire project and thus requires no cutting.

The most important features
- Self-cleaning
- Cast iron crown
- Sustainable materials

Our slot drain is available with differentiated apertures. This means that the width of the crown aperture can go from minimum to maximum opening with a smooth transition from start to finish of a section. The width of the slot drain and channel itself remains unchanged and thus requires no cutting. The minimum aperture can be useful at entrance or transition areas where pass through, ideally without losing dropped keys and other objects that can fall into the gap.

Cleaning well

Centred slot drain

Side-aligned slot drain

GH10053	Slot drain, 20 mm aperture 140 x 500 mm, centred, galvanised steel
GH10090	Slot drain, 8 mm aperture 140 x 1000 mm, side-alignment, cast iron crown
GH10091	Slot drain with cleaning grate, 140 x 1000 mm, centred, galvanised steel
GH10092	Slot drain, 140 x 1000 mm, centred, cast iron crown
GH10093	Slot drain,140 x 1000 mm, cast iron crown
GH10096	Slot drain, 190 x 1000 mm, cast iron crown
GH10097	Slot drain with cleaning grate,140 x 1000 mm, cast iron crown

The Dock-Line series was designed for Sluseholmen in Copenhagen.
The open linear drainage element was made for Valby Have park.

AT116025 & AT116002

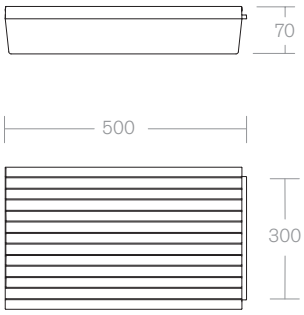
Dock-Line Open linear drainage can be used with point drainage products from the same range.

AT116025

At116025 & AT116001

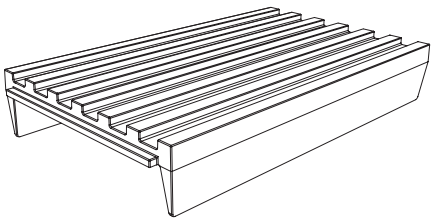
DOCK-LINE OPEN LINEAR DRAINAGE

ARKITEMA



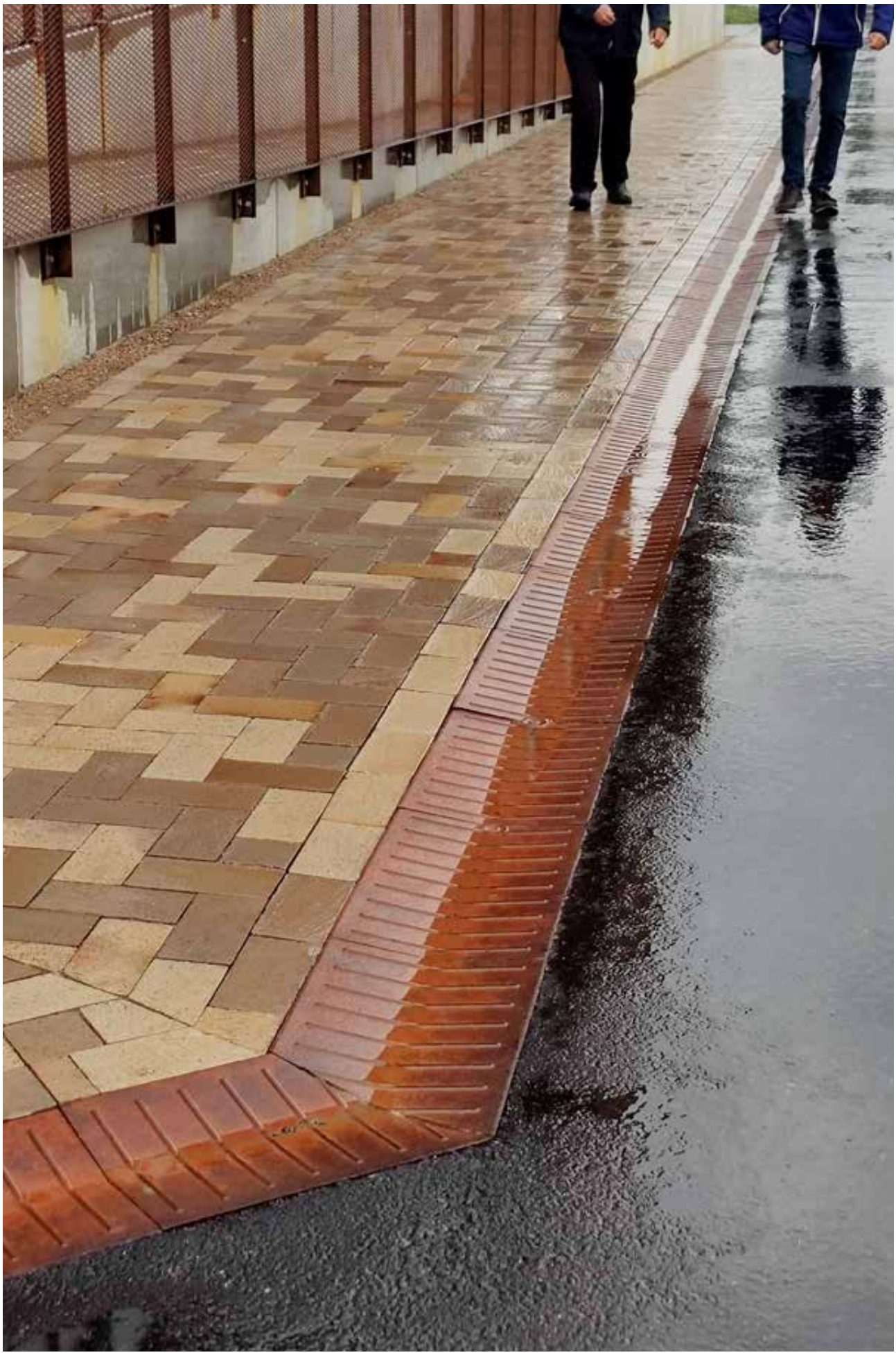
Dock-Line Open linear drainage is a cast iron paving element with marked longitudinal profiles, intended for installation in damp concrete.

The open ends of the element are use a tongue and groove system to guide the elements together during installation. This type of linear drainage allows the element to handle very heavy loads from vehicles, as it is fully undercast with concrete. The element is easy to install



AT116025	Dock-Line Open linear drainage 300 300 x 500 x H 70 mm
AT116026	Dock-Line Open linear drainage with tactile markings 300 x 500 mm

epddanmark



V-Channel was developed by BOGL Arkitekter in collaboration with GH Form.

BOG116025

The slightly sloped v-profile that gives it its name allows the channel to satisfy all accessibility requirements.

BOG116025

BOG116025 & HLA116003

V-CHANNEL OPEN LINEAR DRAINAGE

BOGL ARKITEKTER

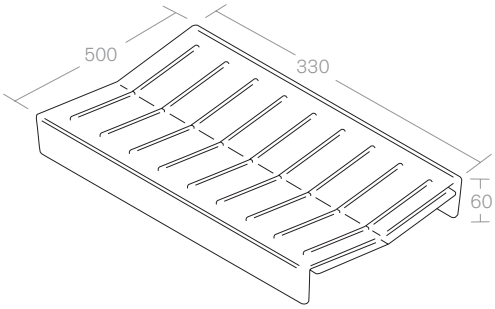
V-Channel is a paving element and can withstand loads from very heavy vehicles when fully undercast with concrete.

The channel can be used for open linear drainage along roadways, squares and other paved areas.

The slightly sloped v-profile that gives it its name mean that the channel satisfies all accessibility requirements.

The transversal rib pattern provides an anti-slip surface and makes it easy to see that the channel has a V-profile.

The channel is intended for installation in damp concrete. It is easy to install, as its open ends are joined using a cast-in tongue and groove system.



BOG116025	V-Channel 300 x 500 x H 60 mm	untreated cast iron

epddanmark

Dock-Line point drainage grates can seen in the healing gardens at Bispebjerg Hospital and elsewhere. AT116001

The Dock-Line point drainage grate can be positioned as a stand-alone grate or in combination with the Dock-Line linear drainage grate, which shares the same dimensions as used on the transversal ribs.

Here you can see a Dock-Line point drainage grate with studded pattern.

AT116002

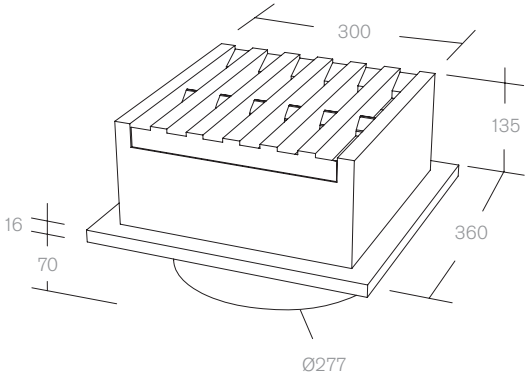
DOCK-LINE POINT DRAINAGE GRATE

ARKITEMA

The Dock-Line point drainage grate was developed as a single element that is part of a complete series. The outer edges of the square grate have an inclined chamfer that meets the ribs.
This detail is characteristic of all grates in the Dock-Line range.

The fixed-frame Dock-Line point drainage grate is made of heavy-duty SG-grade iron. Its design means that the frame is visually an integrated part of the grate. The point drainage grate is child-proof, cyclist-friendly and durable.

The point drainage grate fits standard 315 mm wells. The open linear drainage element should be placed in damp concrete if the point drainage grate is used with Dock-Line Open linear drainage.



AT116001	Dock-Line point drainage grate 300 x 300 mm with fixed frame / Ø277
AT116002	Dock-Line point drainage grate 300 x 300 mm with studded pattern / Ø277

Plaza point drainage as level, concave and v-profile.

HLA116002

The slightly sloped v-profile that gives it its name allows the channel to satisfy all accessibility requirements.

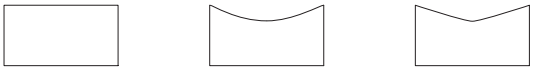
HLA116003

PLAZA POINT DRAINAGE GRATE

HENNING LARSEN ARCHITECTS

The fixed-frame Plaza point drainage grate is made of heavy-duty SG-grade iron. Its design means that the frame is visually an integrated part of the grate. The point drainage grate fits standard 315 mm wells (with gasket) and 280 mm (without gasket).

The grate is available as:
- Level
- Concave/radiused
- V-form
- Closed
- Level - for floating edge (asphalt)

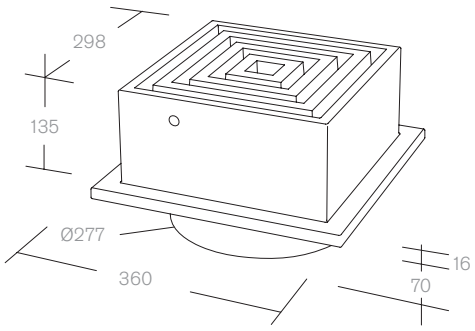


HLA116001
Level profile surface

HLA116002
Concave profiled surface

HLA116003
V-form profiled surface

The untreated cast iron makes it suitable for use in all kinds of surroundings, even in demanding coastal and/or urban environments. These grates have a 40 ton load-bearing capacity classification. Plaza point drainage is supplied with child safety fittings.



HLA116001	Plaza point drainage grate, level 300 x 300 mm / Ø277 mm
HLA116002	Plaza point drainage grate, concave 300 x 300 mm / Ø277 mm
HLA116003	Plaza point drainage grate, V-form 300 x 300 mm / Ø277 mm
HLA116004	Plaza point drainage grate, closed 300 x 300 mm / Ø277 mm
HLA116006	Plaza point drainage grate, level, floating frame 300 x 300 mm / Ø277 mm

Radiused plinth gutter. Kulturhus Risbjerggaard, Landskab: Vandkunsten, Hvidovre. GH10063 & HJ115505

Our grates are supplied with individually customised corner joints, creating a continuous grating line around the entire building.

We make ready-made corner joints at our own factory. Corner elements typically measure 0.5 x 0.5 metres. Gutter and grate are both bent and cut at our factory.

GH10064 & AT116015

PLINTH GUTTER

GH FORM

The plinth gutter was developed because we saw a need for a simple, easy to install a plinth gutter that satisfies the latest requirements.

The most important features
- Maintenance-free - no cleaning
- Unique, ready-made corner elements from 10-130°
- Uniform grates on both plinth gutter and linear drainage.
- The gutter has a high ventilation classification.

All linear drainage grates from GH Forms Aquaform® product range can be use on our plinth gutter. They can be supplied with the following surface treatments according to project requirements:

- Untreated cast iron
- Galvanised
- Painted

Gutter height is crucial to optimal ventilation and socket inspection. Our gutters measure 150 mm **(medium ventilation classification)** and 200 mm **(high ventilation classification)** respectively in total installation height. GH Form stocks gutters with a high ventilation classification and produces low gutters to order. All our linear drainage grates are also fully compatible with and can be used on our plinth gutters.

GH10063	Plinth gutter B 240 x L 1000 x H 200 mm
GH10064	Plinth gutter B 190 x L 1000 x H 200 mm
GH10065	Plinth gutter B 140 x L 1000 x H 200 mm
GH10066	Plinth gutter B 100 x L 2995 x H 200 mm
GH10068	Plinth gutter B 100 x L 60 x H 200 mm
GH10070	Plinth gutter B 140 x L 2500 x H 200 mm
GH10055	Plinth gutter B 240 x L 3000 x H 200 mm
GH10074	Plinth gutter angle 90°, Internal B 140 x L 1020 x H 200 mm
GH10071	Plinth gutter angle 90°, External B 140 x L 1020 x H 200 mm
GH10072	End cap B 140 mm
GH10073	End cap B 100 mm
GH10075	Drain fitting Ø110 mm

All our linear drainage grates fit our plinth gutters.

CONCRETE POLYMER DRAINAGE CHANNELS

GH FORM

Aquaform® has concrete polymer channels in 140, 190, 240, 360 and 500 mm widths.

The channels should be placed 30-35 mm measured from the top edge of the finished paving to the contact surface of the edge profile. This measurement will depend on the grate. The channel is thus 4mm below the completed terrain surface.

When using rust-resistant edges for use in asphalt paving, the channel should be placed so that the edge is 2 mm below the finished terrain level.

Channels, 140 mm width
GH10150 is the standard channel, with the following dimensions:

External width:	140 mm
External length:	1000 mm or 500 mm
External installation height:	255 mm

The standard channel has the option of bottom, side or end cap outlets.

Where sealed joints are required, such as on floor decks or in special environments, the built-in joint groove in the channel joints is used. Jointing is an easy process with a caulking gun as the elements are put together. A suitable adhesive and sealant must be used for this purpose. When the work is completed, the joint is hidden and protected from mechanical overloading.

ZERO-DROP CHANNELS

GH1000	GH channels, L1000 x B140 mm, total external height 126 mm
GH1000-STUDS	GH channels, L1000 x B 140 mm, integrated cast Ø110 fitting, 126 mm
GH10050	GH channels, L1000 x B140 mm, total external height 176 mm
GH10050-STUDS	GH channels, L1000 x B 140 mm, integrated cast Ø110 fitting, 176 mm
GH10100	GH channels, L1000 x B140 mm, total external height 226 mm
GH10100-STUDS	GH channels, L1000 x B 140 mm, integrated cast Ø110 fitting, 226 mm
GH10150	GH channels, L1000 x B140 mm, total external height 251 mm
GH10200	GH channels, L1000 x B140 mm, total external height 276 mm
GH10151	GH channels, L500 x B140 mm, total external height 251 mm
GHA30	GH channels, L1000 x B360 mm, total external height 330 mm
GHA50	GH channels, L1000 x B500 mm, total external height 280 mm

CHANNELS WITH 10% INTEGRATED DROP

GH101501	GH channels L1000 x B140, total external height 126- 136 mm
GH101502	GH channels L1000 x B140, total external height 136- 146 mm
GH101503	GH channels L1000 x B140, total external height 146- 156 mm
GH101504	GH channels L1000 x B140, total external height 156- 166 mm
GH101505	GH channels L1000 x B140, total external height 166- 176 mm
GH101506	GH channels L1000 x B140, total external height 176- 186 mm
GH101507	GH channels L1000 x B140, total external height 186- 196 mm
GH101508	GH channels L1000 x B140, total external height 196- 206 mm
GH101509	GH channels L1000 x B140, total external height 206- 216 mm
GH101510	GH channels L1000 x B140, total external height 216- 226 mm

CHANNELS WITH 5% INTEGRATED DROP

GH101511	GH channels L1000 x B140, total external height 226- 231 mm
GH101512	GH channels L1000 x B140, total external height 231- 236 mm
GH101513	GH channels L1000 x B140, total external height 236- 241 mm
GH101514	GH channels L1000 x B140, total external height 241- 246 mm
GH101515	GH channels L1000 x B140, total external height 246- 251 mm
GH101516	GH channels L1000 x B140, total external height 251- 256 mm
GH101517	GH channels L1000 x B140, total external height 256- 261 mm
GH101518	GH channels L1000 x B140, total external height 261- 266 mm
GH101519	GH channels L1000 x B140, total external height 266- 271 mm
GH101520	GH channels L1000 x B140, total external height 271- 276 mm

CHANNELS, 190 MM WIDTH

For all Aquaform grates with 190 mm width
GHA15 is the standard channel and has the following dimensions:

External width: 190 mm
External length: 1000 mm or 500 mm
External height: 290 mm

CHANNELS, 240 MM WIDTH

For all Aquaform grates with 240 mm width
GHA20 is the standard channel and has the following dimensions:

External width: 240 mm
External length: 1000 mm or 500 mm
External height: 293 mm

CHANNELS, 360 MM WIDTH

GHA30 is the standard channel and has the following dimensions

External width: 360 mm
External length: 1000 mm
External height: 330 mm

CHANNELS, 500 MM WIDTH

For Campus Straight in 500 mm width
GHA50 is the standard channel and has the following dimensions:

External width: 500 mm
External length: 1000 mm or 500 mm
External height: 280 mm

The standard channel has the option of bottom or end cap outlets.

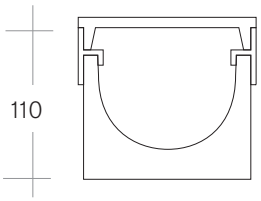
LOW CHANNELS AND LOW-PROFILE CHANNELS

CONCRETE POLYMER DRAINAGE CHANNELS

The lowest standard zero-drop channel is 126 mm in total installation height. This channel is only available with a bottom outlet and cannot be made with an outlet in the end cap.

GH.10.LP Aquaform low-profile channel is used where other options are excluded. It is only made with a bottom outlet. GH10LP Aquaform low-profile channel is 110 mm in total installation height including grate. This channel is available with a bottom outlet and cannot be made with an outlet in the end cap. It can be made it with a side outlet for a specific project.

GH1050 is Aquaform®'s lowest channel with an outlet in the end cap. It has a total height of 176 mm.

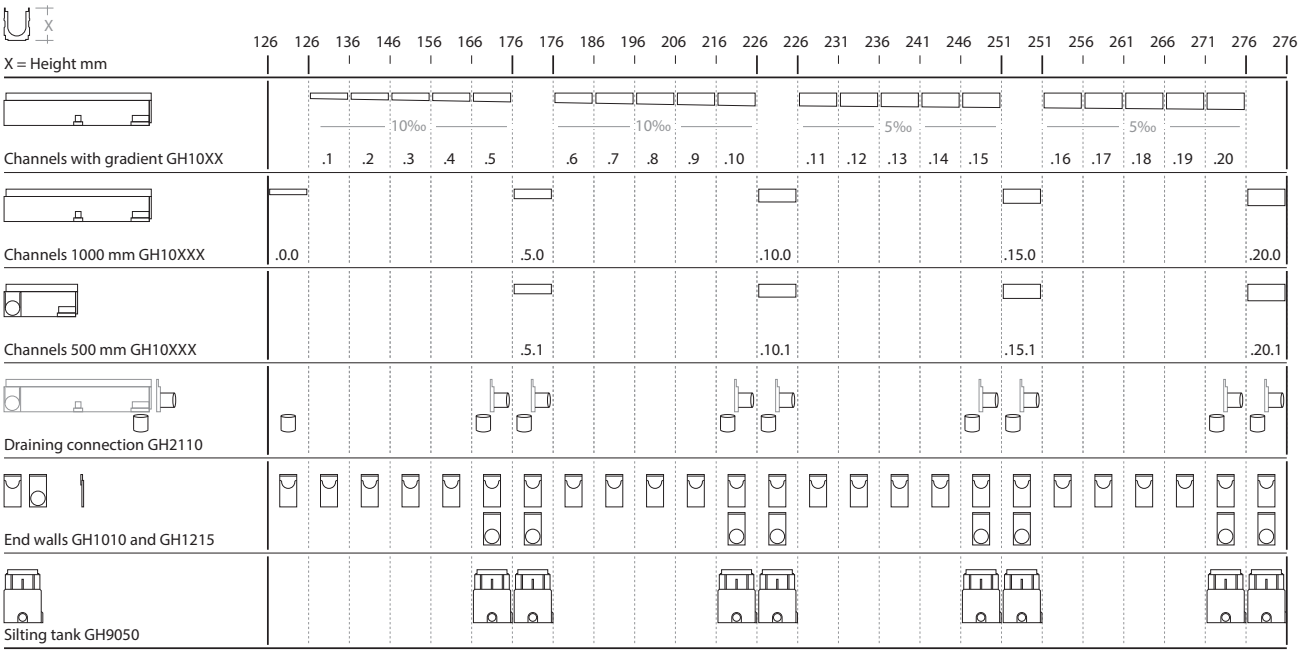


Corner and T-joints / GH channel 500 mm zero-drop are used to establish T-joints.

For corner joints, both grates and channels are cut on site after measurement. GH Form is happy to provide advice and guidance, and can cut grates and channels if required. See the photo below.

OVERVIEW OF 140 MM CHANNELS WITH BUILT-IN SLOPE AND ACCESSORIES

The height indicated is the height of the channel including its frame and excluding the grate. The grates measure between 4 and 10 mm in height when they are on the channel. Total installation height is therefore the height plus between 4 and 10 mm, depending on the choice of grate.



CHANNEL ELEMENTS

SILTING TANKS IN CONCRETE POLYMER

Silting tanks are ready to be connected to channels at both ends. They are prepared for Ø110 and Ø160 mm outlets. When connecting channels, the recess should be knocked out from the inside after the channel has been connected. If channels are only connected at one end, the other end should be closed with an end cap.

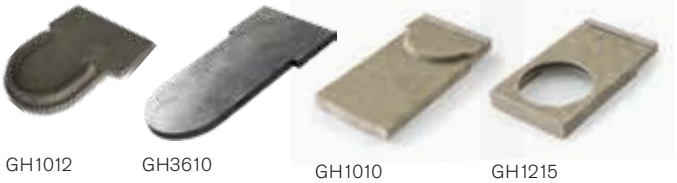
The leaf trap has a total external height of 500 mm. The sand trap's total external height is 716 mm.
The silting tank should be installed as described in the installation instructions section.

GH9050	Sand trap with sludge bucket, L 500 mm, for 140 mm channel external height 716 mm, plastic sludge bucket
GH9051	Sand trap with sludge bucket, L1000 mm, for 240 mm channel external height 716 mm, plastic sludge bucket
GH9052	Sand trap with sludge bucket, L 1000 mm, for 190 mm channel external height 716 mm, plastic sludge bucket
GH9060	Leaf trap with filter insert, L 500 mm, for 140 mm channel external height 500 mm, plastic sludge buck

GH9050

CHANNEL END CAPS

End caps are produced in two variants: with and without outlet. End caps with with an outlet are end caps with an O-ring. End caps with no outlet are closed ends. For our GH10LP Aquaform low profile channel we offer the GH1010LP GH end cap. This end cap is closed.



GH1012 GH3610 GH1010 GH1215

GH1010	End cap, 140 mm, closed	concrete polymer
GH1012	End cap, 140 mm, closed	cast iron
GH1215	End cap, 140 mm with o-ring	concrete polymer
GH1510	End cap, 190 mm, closed	concrete polymer
GH1095	End cap , 140 mm, closed	cast iron
GH1511	End cap, 190 mm with o-ring	concrete polymer
GH2020	End cap, 240 mm, closed	concrete polymer
GH1096	End cap , 140 mm, closed	cast iron
GH2015	End cap, 240 mm with o-ring	concrete polymer
GH3610	End cap, 360 mm, closed	untreated cast iron

END CAPS FOR LINEAR DRAINAGE

For the "Linear" linear drainage grate, we developed a closing element to cover the end cap. (see page 15)

It is also possible to terminate a linear drain with a cast iron end cap. Such a solution is shown here with the Dock-Line linear drainage grate that terminates with a cast iron end cap.

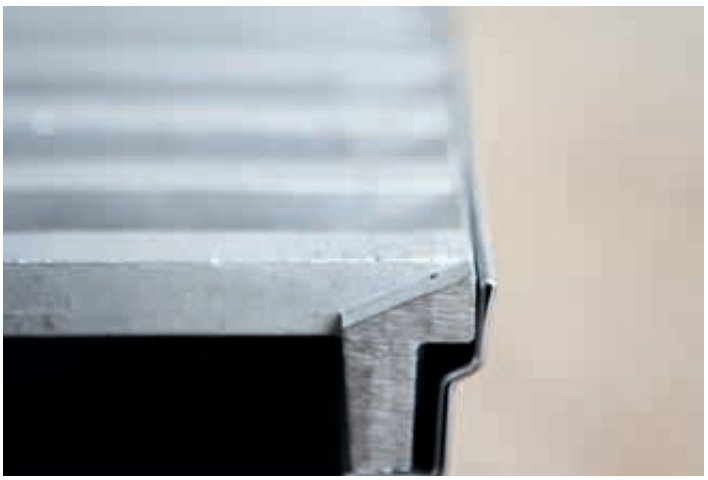
DRAIN CONNECTION PIECES

A drain connection piece is used as a transition between channel and outlet. For vertical outlets that come directly from the channel, the recess in the bottom of the element must be knocked out from the inside. The drain connector should be inserted into the outlet hole before the water channel is put in place. A jointing groove for an adhesive and sealant has been established at the bottom outlet.

GH2110	Drain fitting Ø110 mm
GH2150	Drain fitting Ø160 mm
GH2160	Drain fitting Ø200 mm

The steel frame is for use when laying asphalt. It is made of rust-resistant steel and has an extra edge that goes up around the grate so asphalt can be laid all the way up to it. This way, the grate is not set and can be removed without damaging the asphalt surfacing.

GH134002



CHANNEL FRAMES AND EDGES

GH FORM

GH134003

The following options are available.
- Plastic edge for use when laying tiles and paving stones
- Rust-resistant edge for use when laying in asphalt
- Cast iron frame to reinforce the top of the channel - can also be used in asphalt

The steel edge is for use when laying asphalt. It is made of rust-resistant steel and has an extra edge that goes up around the grate so asphalt can be laid all the way up to it. This way, the grate is not set and can be removed without damaging the asphalt surfacing. See fig. 02.

It is possible to choose a plastic edge on one side of the channel and a steel edge on the other, depending on whether asphalt is to be laid up to the grate on one or both sides.

The cast iron frame can be used where extra reinforcement is required at the top of the channel. The frame has transversal struts for particularly robust channel reinforcement. The cast iron frame can also be used up to asphalt paving. It is available in 140 mm and 240 mm widths.

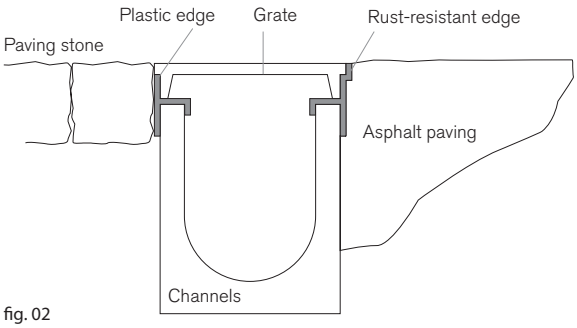


fig. 02

GH134001	Plastic edge for tiles and paving stones, L 1000 mm	PP / COP
GH134002	Rust-resistant edge for asphalt paving, L 1000 mm	Rust-resistant steel
GH134003	Cast iron frame, B 140 mm, for all paving types, L 500 mm	Untreated cast iron
GH134004	Cast iron frame, B 240 mm, for all paving types, L 500 mm	Untreated cast iron

INSTALLATION INSTRUCTIONS

INSTALLATION OF CONCRETE POLYMER CHANNELS AND GRATES

Aquaform® recommends that the finished grated channel lies 3
to 4 mm below the surrounding paving to ensure that surface water can flow freely into the linear drainage grate. The channel must be placed an additional 6 mm below the surrounding paving to compensate for the cover flaps on the grating.

The contact surface of the channel should be set 30 mm lower than the surrounding paving surface. See fig. 04.

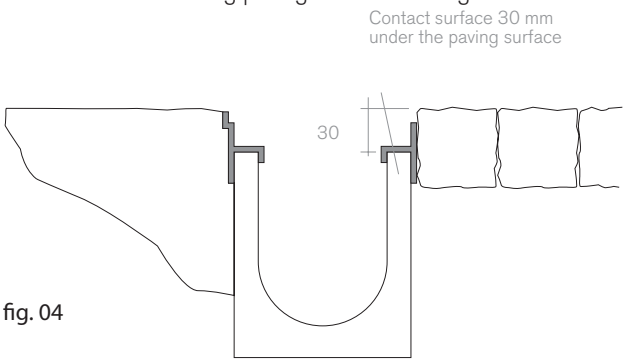


fig. 04

GH Forms drainage channels are cast with concrete according to load classification (fig. 03). See the overview in the "determining load category" section.

The elements are placed and aligned on a concrete surface. Always start from the outlet. Insert each element vertically into the groove of the previous one. Any protruding grooves on two elements should be cut away with an angle grinder before they are put in place. Once the channels have been placed and aligned, cast on both sides.

Gratings or cover planks (22 x 128 mm, fig. 05) must always be placed during the pouring and when carrying out the paving work. The use of cover planks is generally recommended (and especially advisable in connection with clinker and plastic coverings). This ensures that the edge profiles are not pressed so hard against the grates as the concrete compacts that they are prevented from coming into tension. This also avoids the otherwise laborious subsequent cleaning of grates and channels. Remember that the adjacent surfaces must be 30 mm above the contact surface of the channels. The prerequisites for achieving a successful and durable result include: Suitable materials, optimal construction and last but not least, care in the execution.

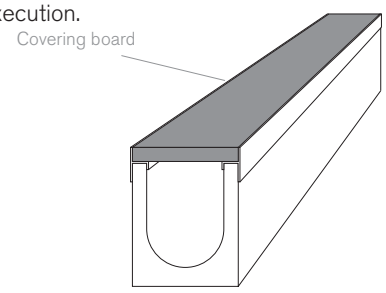


fig. 05

Aquaform® channel elements are designed so that traffic loads are transferred to the concrete in which the channel is set. See fig. 06.

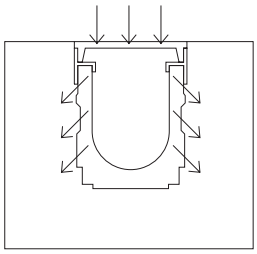


fig. 06

When constructing with paving stones right up to the channel, it is important that sand is not placed right up to the channel. This is partly because sand cannot absorb the forces that are transferred via the channel wall during traffic loading, and partly because vertical pressure on paving stones placed in sand is converted into horizontal pressure on the channel wall, which can lead to overloading. See fig. 07.

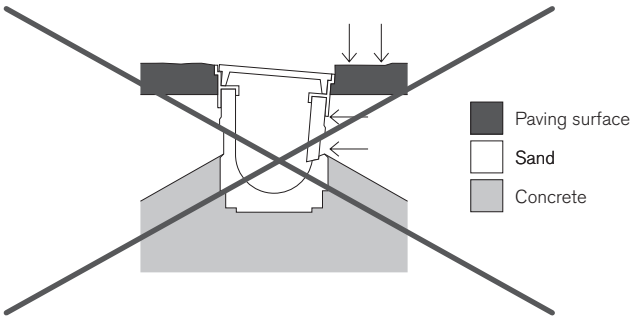


fig. 07

PRACTICAL ADVICE

It is important that the channel is set and recast according to load category before the surrounding paving is established.

If paving stones are used right up to the channel, the row of stones along the channel must be placed in the concrete seating that surrounds the channel. When asphalt paving is laid close to the channel, the asphalt thickness immediately adjacent to the channel must not exceed 30 mm. The asphalt must be laid with a height that compensates for post-compaction during subsequent traffic loads. Expansion joints must be established when casting into a larger concrete surface. These must be partly parallel to and 1.5-2.0 metres from the channel, and partly perpendicular to the channel next to a channel joint with a maximum distance of 8 metres between each expansion joint.

DETERMINING LOAD CATEGORY

FOR GRATINGS WITH CHANNELS IN CONCRETE POLYMER

The thickness (t), Fig. 03, of the surrounding concrete must correspond at least to the values stated here.

Load classification	A / B C E / F		
Concrete casting, t = mm	100	150	200 / 250
Concrete grading		B15	B25 B30

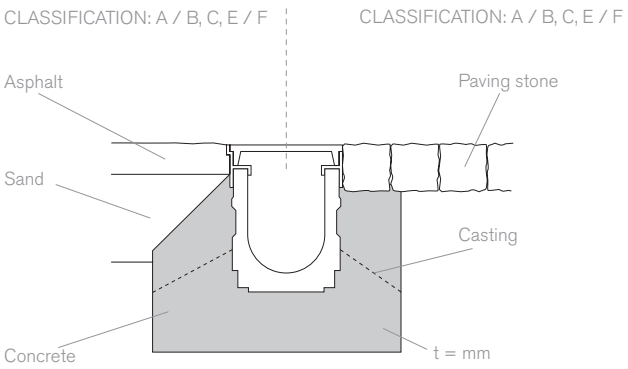


fig. 03

A / B

10 tons. Areas with pedestrian, cycle and car traffic, such as residential and park areas, parking areas and so on.

C

25 tons. Closed industrial areas with limited truck and lorry traffic, motorway access and exits and along kerbs.

E / F

40 tons. Areas with particularly high traffic loads. Grates and channels can be supplied to project-oriented
structure and requirement specifications.

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SELECTED REFERENCES

LINEAR DRAINAGE

Aarhus harbour district and island
Aarhus pedestrian street
BLOX, Copenhagen
Design District, London
Frederiksberg Town Centre
Hørsholm pedestrian street
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