

HYDROTEC

DRAINAGE CHANNELS

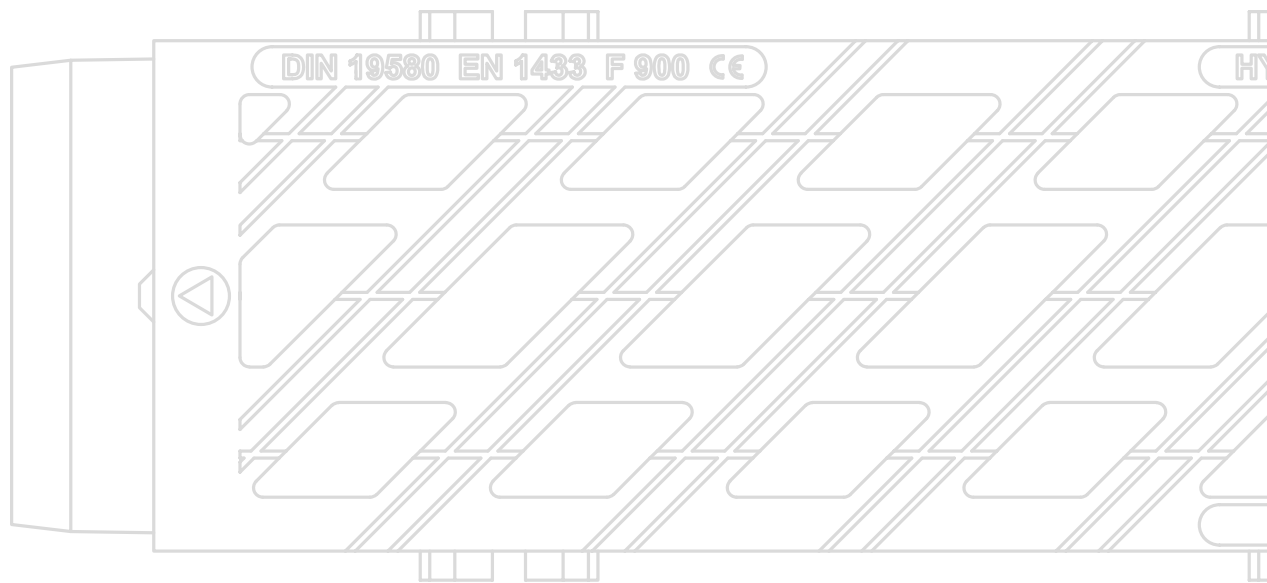


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Class F 900




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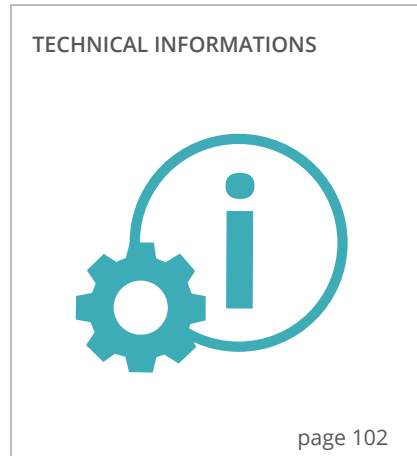
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General notes

The installation instructions are only provided as a recommendation. The construction companies charged with installation can naturally incorporate any of their own improvements. The construction company is responsible for the correct installation of the drainage channels.

All installed parts must be examined before installation to ensure that they are undamaged. For reasons of liability never install damaged parts and contact the supplier immediately to submit a claim.

ABOUT HYDROTEC



From little to large.

On reflection, we consider this company to be a success story. When starting out nearly 50 years ago not even the company's founder, Gisbert Brinkschulte, could have envisioned that his sole ownership company would grow to be such a strong global player namely HYDROTEC Technologies AG. The company has grown with a comprehensive network of business partners and is taking all necessary steps to continue growing in the future. HYDROTEC products are sold in many different countries and seek to establish ourselves as one of the leading players in each market. To achieve this we adhere to our principles: High quality products at fair market prices.

We like to answer your questions before you ask them.

With our commitment to continually improve our technology and broaden our range of quality products HYDROTEC is expanding its core business which is manufacturing and selling drainage castings / systems. Self-leveling manhole covers, drainage channels, surface boxes, or street furniture are just a few examples of our product portfolio, which is sold all over the world.

THE PRODUCTION



INSTALLATION SECTION

EN 1433



Class A 15
Test load 15 kN
Walkways, cycling paths, green areas



Class B 125
Test load 125 kN
Walkways, pedestrian zones, car parking areas



Class C 250
Test load 250 kN
Kerb areas, emergency lanes, car parking areas



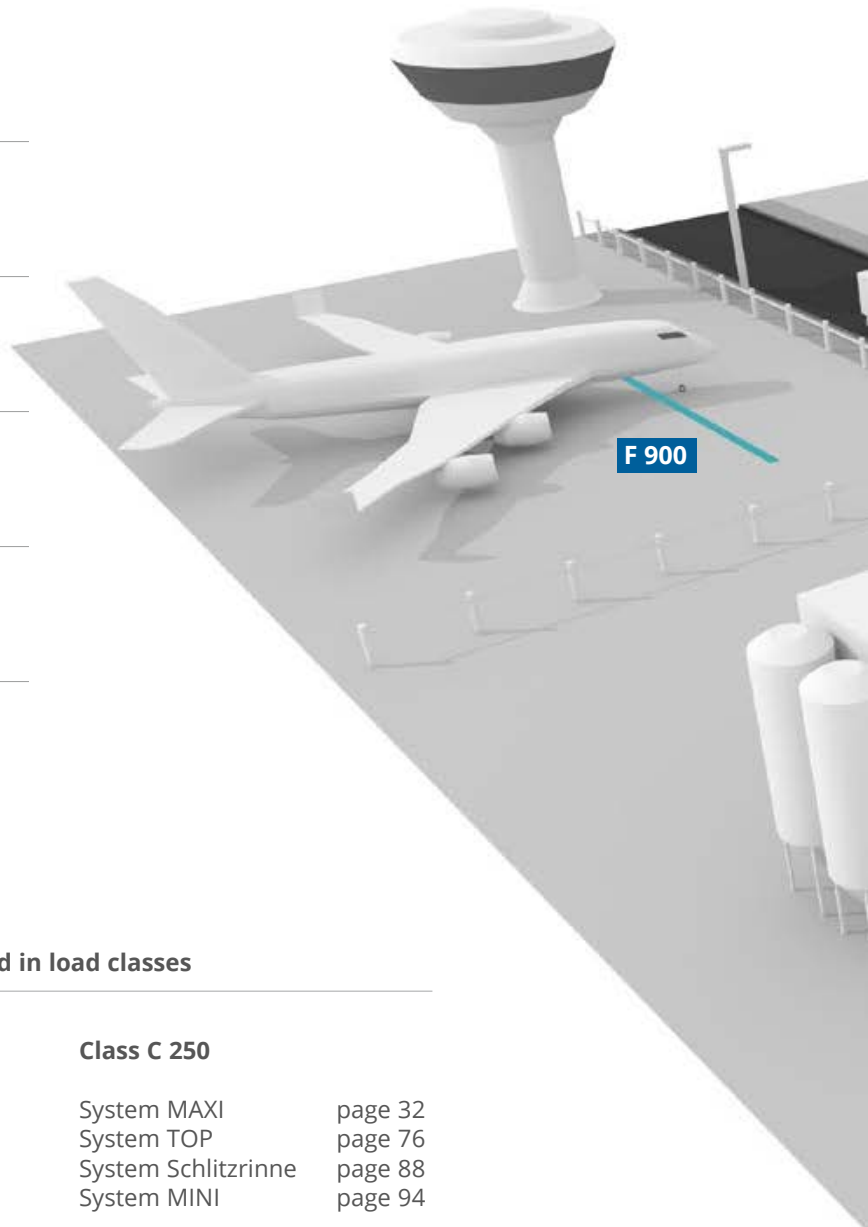
Class D 400
Test load 400 kN
Road surfaces, pedestrian streets



Class E 600
Test load 600 kN
Industry, military, heavy wheel loads



Class F 900
Test load 900 kN
Airport surfaces, docks, very heavy wheel loads



HYDROTEC Drainage channels ordered in load classes

Class F 900

System HYDROblock® page 10
System HYDROline page 24
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Class E 600

System MAXI page 32

Class D 400

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Class C 250

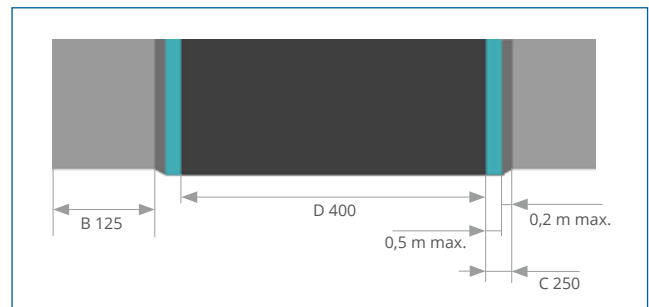
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Class B 125

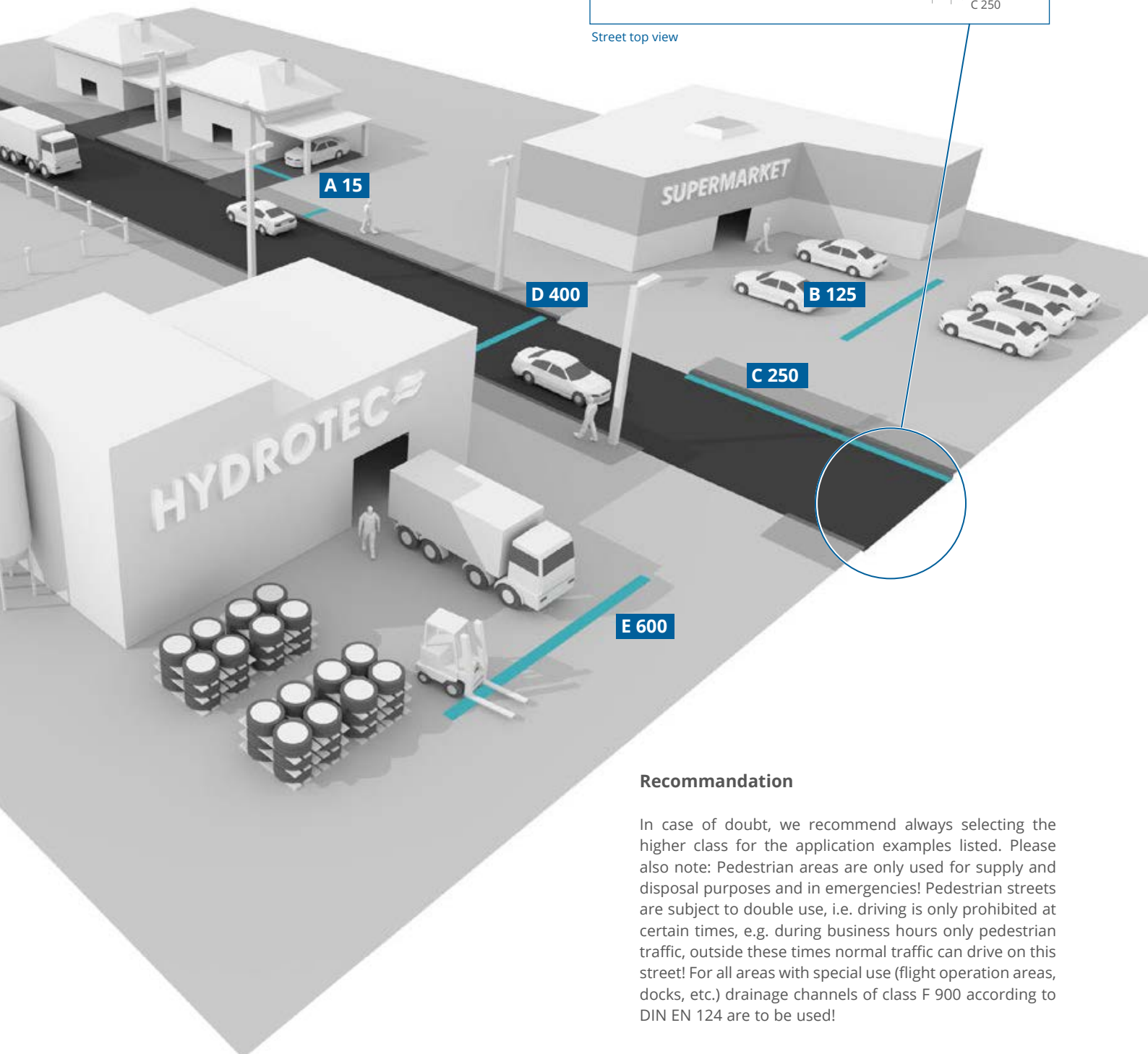
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Class A 15

System MAXI page 50
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Street top view



Recommendation

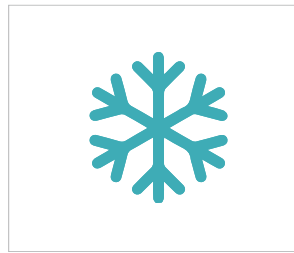
In case of doubt, we recommend always selecting the higher class for the application examples listed. Please also note: Pedestrian areas are only used for supply and disposal purposes and in emergencies! Pedestrian streets are subject to double use, i.e. driving is only prohibited at certain times, e.g. during business hours only pedestrian traffic, outside these times normal traffic can drive on this street! For all areas with special use (flight operation areas, docks, etc.) drainage channels of class F 900 according to DIN EN 124 are to be used!

GENERAL SYSTEM BENEFITS



Concrete

All drainage channel elements made of fiber reinforced concrete (concrete strength class C35/45).



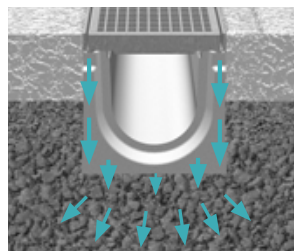
Weather-resistant

The drainage channels have a high frost and de-icing salt resistance.



Audit

Surveillance by the „Official Material Testing Institute in Bremen“ (MPA) and internal auditing to EN 1433 standard.



Stability

The smooth external surfaces (U-form) guarantee an optimal transfer of loads into the substructure.



Non-flammable

HYDROTEC drainage channels are resistant to high temperature and are non-flammable, in compliance with DIN 4102.



Thermal expansion

The lower bodies have the same coefficient of thermal expansion as the concrete casing.



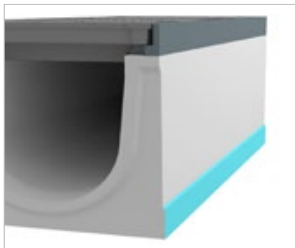
CO₂ emission

HYDROTEC has low CO₂ emission and low energy requirement in manufacturing.



Environmentally friendly

The materials used to manufacture HYDROTEC are natural and fully recyclable.



Flotation security

The flotation security ensures a permanent embedding in the foundation.

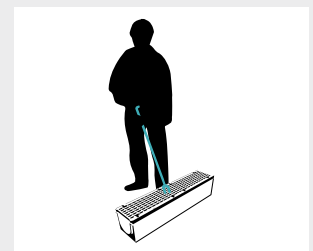
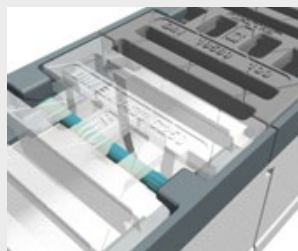


Outflow pipe connection

Liquid-tight connection for ground pipes.

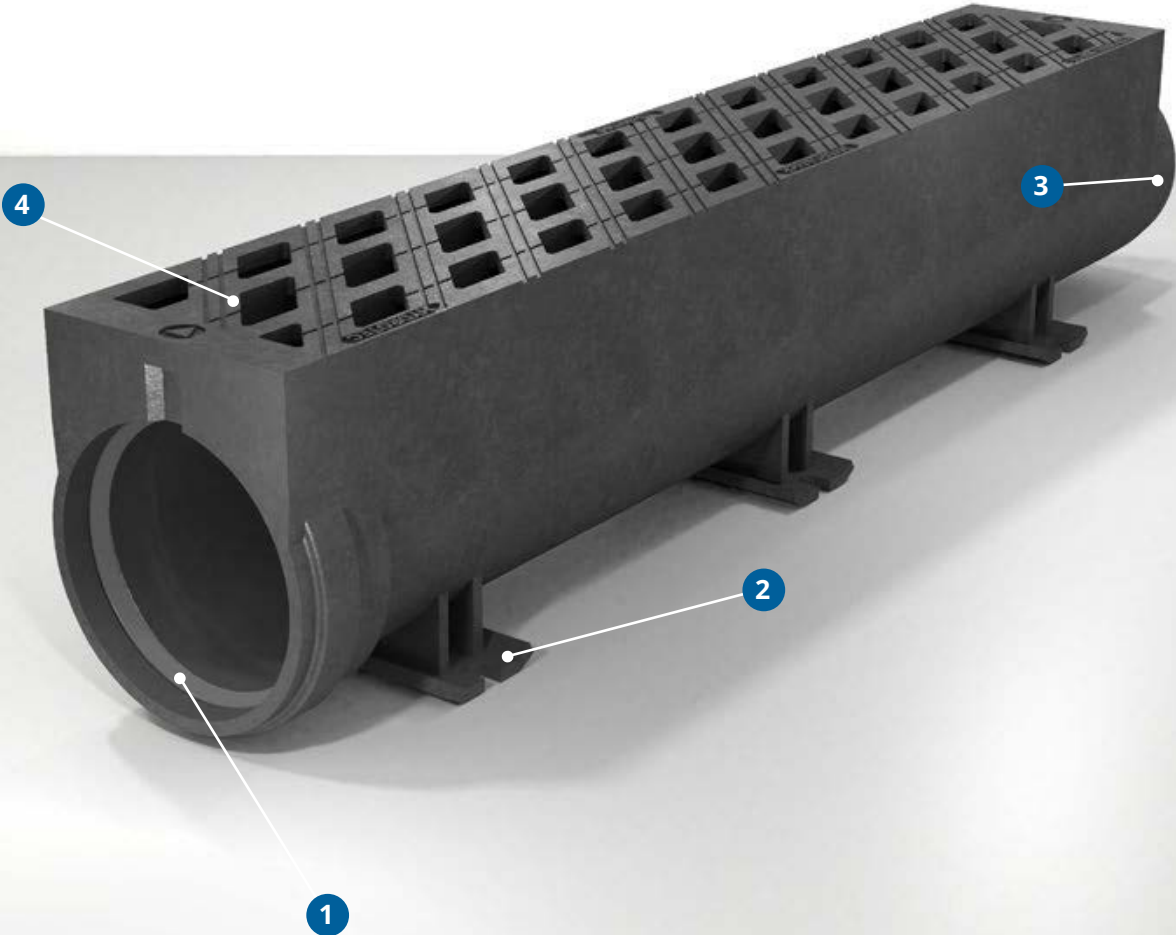
Installation bar

The installation bar for the TOP/MAXI drainage channels provide convenient opening and closing operation from a standing position.



SYSTEM HYDROblock®

Product benefits



UNIQUE WORLDWIDE!
RATTLE FREE!

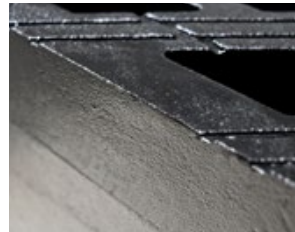
SYSTEM HYDROblock®

Product benefits

CLASS
F 900

Test load 900 kN
EN 1433

Ideal for industrial surfaces,
airport surfaces, docks and
very heavy wheel loads.



Made of ductile iron

Ductile iron (ductile iron with
nodular graphite) is robust, can
withstand high static loads



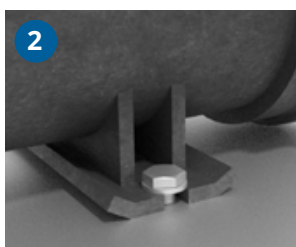
Rattle free and perfect for
crosswise traffic

Because of its monolithic design
made of ductile iron, the safety slot
system is perfect for heavy loads,
crosswise traffic and is absolutely
rattle free.



Smart seal system

HYDROblock® drainage channels
are connected by an integrated
seal which enables an immediate
watertight connection without
additional sealing.



Installation support /
anchoring

The HYDROblock® feet can be
used as an additional anchor
point to the concrete foundation.
Furthermore it facilitates the use
of additional shims or clamps
to level the HYDROblock® to a
specific Height.



Reliable sealing

The spigot end allows connection
of commercially available plastic
pipes.



TYPE I

HYDROblock® is certified as a
TYPE I channel according
EN 1433 which means the
channel is able to take horizontal
forces without the need for
concrete encasement. It only
requires a load bearing concrete
foundation.



Pedestrian design
(optional)

HYDROblock® is also available with
a slot width of 12 mm -
standard slot width 22 mm.

SYSTEM HYDROblock® 100

Class F 900



Vertical outlet



Outlet left / right



Outlet face side / left / right



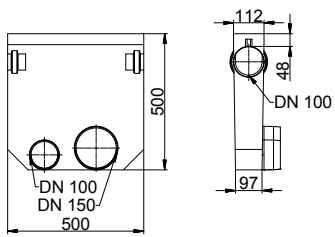
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	180	60060 050	30,5	45	<p>Inlet area 337 cm²/m</p>
Special element Vertical outlet 500 mm	180	60060 058	17,0	-	
Special element Outlet left / right 500 mm	180	60060 358	17,0	-	
Special element Outlet face side / left / right 500 mm	180	60060 458	17,0	-	

SYSTEM HYDROblock® 100

Class F 900

Feed box 



Type	Height mm	Art. no.	kg	Pallet	
Feed box* 500 mm	500	60060008	38,0	-	



*with dirt catcher

SYSTEM HYDROblock® 150

Class F 900



Vertical outlet



Outlet face side / left / right



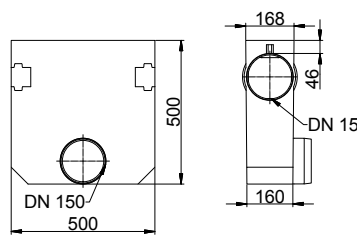
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	225	60160 050	50,3	20	<p style="text-align: right;">Inlet area 520 cm²/m</p>
Special element Vertical outlet 500 mm	225	60160 058	31,0	-	
Special element Outlet face side / left / right 500 mm	225	60160 458	32,0	-	

SYSTEM HYDROblock® 150

Class F 900

FEED BOX 



Type	Height mm	Art. no.	kg	Pallet	
Feed box* 500 mm	500	60160008	55,0	-	



*with dirt catcher

SYSTEM HYDROblock® 150

Class F 900

PEDESTRIAN DESIGN



Vertical outlet



Outlet face side / left / right



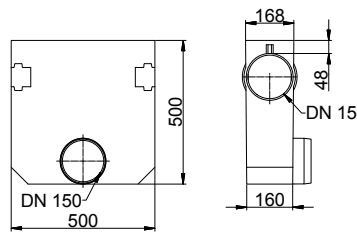
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	225	60163 050	53,0	20	<p style="text-align: right;">Inlet area 380 cm²/m</p>
Special element Vertical outlet 500 mm	225	60163 058	31,0	-	
Special element Outlet face side / left / right 500 mm	225	60163 458	32,0	-	

SYSTEM HYDROblock® 150

Class F 900

FEED BOX - PEDESTRIAN DESIGN 



Type	Height mm	Art. no.	kg	Pallet	
Feed box* 500 mm	500	60163 008	54,0	-	



*with dirt catcher

SYSTEM HYDROblock® 200

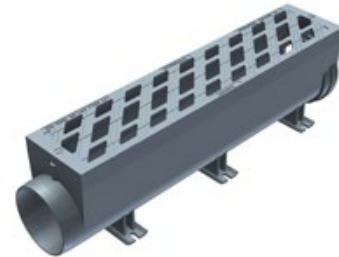
Class F 900



Vertical outlet



Outlet left / right



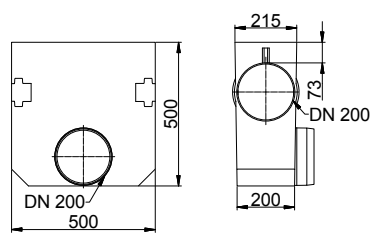
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	295	60260 050	66,1	15	<p>Inlet area 780 cm²/m</p>
Special element Vertical outlet 500 mm	295	60260 058	44,0	-	
Special element Outlet left / right 500 mm	295	60260 358	45,0	-	

SYSTEM HYDROblock® 200

Class F 900

FEED BOX 



Type	Height mm	Art. no.	kg	Pallet	
Feed box* 500 mm	500	60260008	62,0	-	



*with dirt catcher

SYSTEM HYDROblock® 200

Class F 900

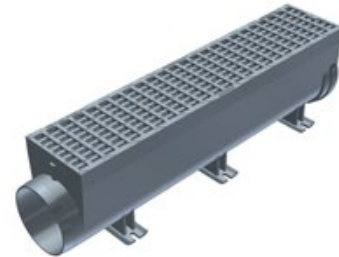
PEDESTRIAN DESIGN



Vertical outlet



Outlet left / right



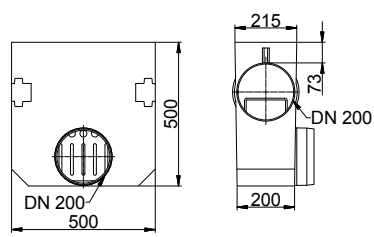
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	295	60263050	71,4	15	<p>Inlet area 566 cm²/m</p>
Special element Vertical outlet 500 mm	295	60263058	40,0	-	
Special element Outlet left / right 500 mm	295	60263358	44,3	-	

SYSTEM HYDROblock® 200

Class F 900

FEED BOX - PEDESTRIAN DESIGN 



Type	Height mm	Art. no.	kg	Pallet	
Feed box* 500 mm	500	60263 008	63,6	-	



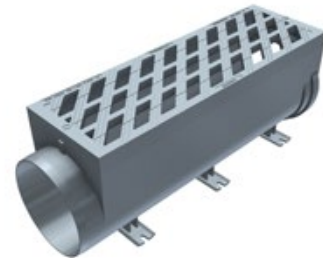
*with dirt catcher

SYSTEM HYDROblock® 300

Class F 900



Vertical outlet



Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	420	60360 050	110,0	6	<p>Inlet area 1.190 cm²/m</p>
Special element* Vertical outlet 750 mm	420	60360 058	105,0	-	

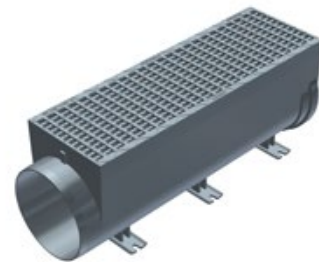
SYSTEM HYDROblock® 300

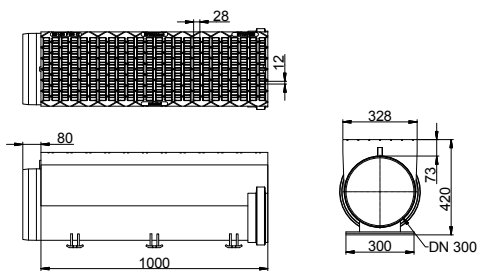
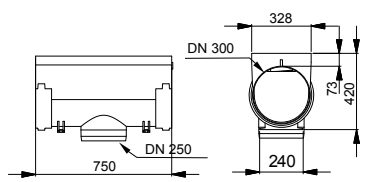
Class F 900

PEDESTRIAN DESIGN 



Vertical outlet

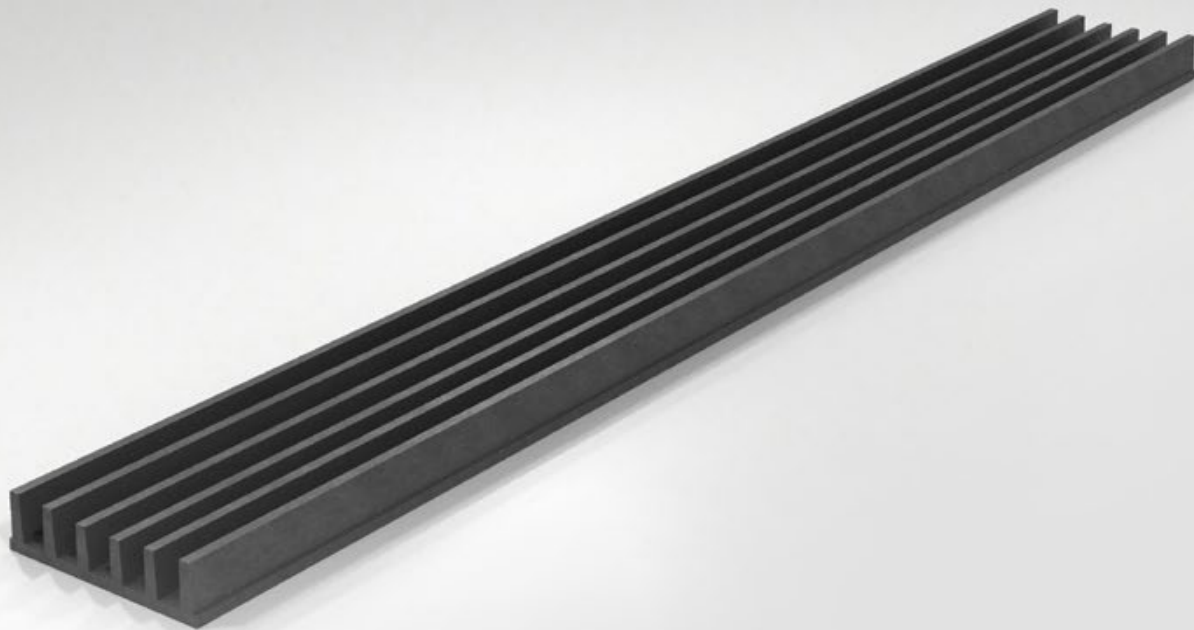


Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	420	603600 501	112,0	6	 <p style="text-align: right;">Inlet area 839 cm²/m</p>
Special element* Vertical outlet 750 mm	420	603600 582	96,0	-	

*option with dirt strainer on page 98

SYSTEM HYDROline

Product benefits



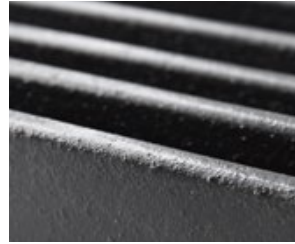
SYSTEM HYDROline

Product benefits

CLASS
F 900

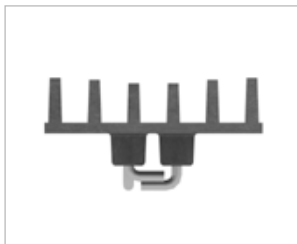
Test load 900 kN

Ideal for terraces, garages, balconies and heavy wheel loads.



Made of ductile iron

Ductile iron (ductile iron with nodular graphite) is robust, can withstand high static loads.



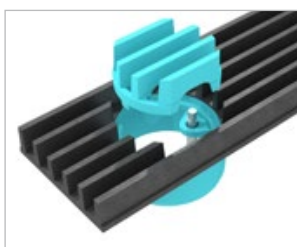
Ultraflat and rattle free

The HYDROline made of ductile iron has only 31 mm construction height! The drainage channel is rattle free due to the monolithic design.



Anchor for concrete

HYDROline features three anchors, and these combined with the grooved underside ensures a very strong connection with the concrete.



Vertical outlet

Outlet drain element with an easily removable grating and integrated connection for a DN 100 outlet pipe.



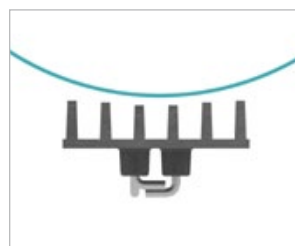
Grating fixture

The grating is secured by a bar as protection against theft and vandalism.



TYPE I

The channel does not require a concrete encasement and can be asphalted or paved directly up against. This offers architectural freedom.

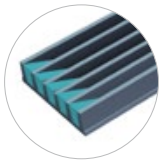


Concave arrangement

The concave arrangement of the slots serves to enhance the transport energy so that the water is well drained even on slight slopes. This in particular prevents flooding.

SYSTEM HYDROline

Class A 15 - F 900



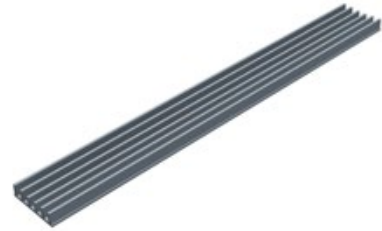
Cleaning element splines highlighted in color



Vertical outlet



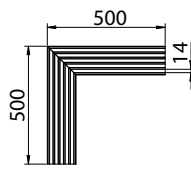
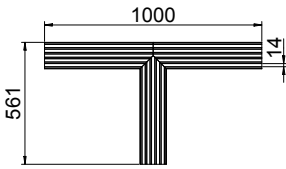
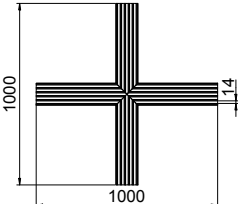
Kerb element



Type	Nominal width mm	Art. no.	kg	Pallet	
Basic element* 1000 mm	120	68000000	12	84	
Cleaning element (incl. 5 splines) 1000 mm	120	68000009	12	-	
Vertical outlet 500 mm	120	68005018	7	125	
Kerb element 500 mm	120	68005020	7	-	

SYSTEM HYDROline

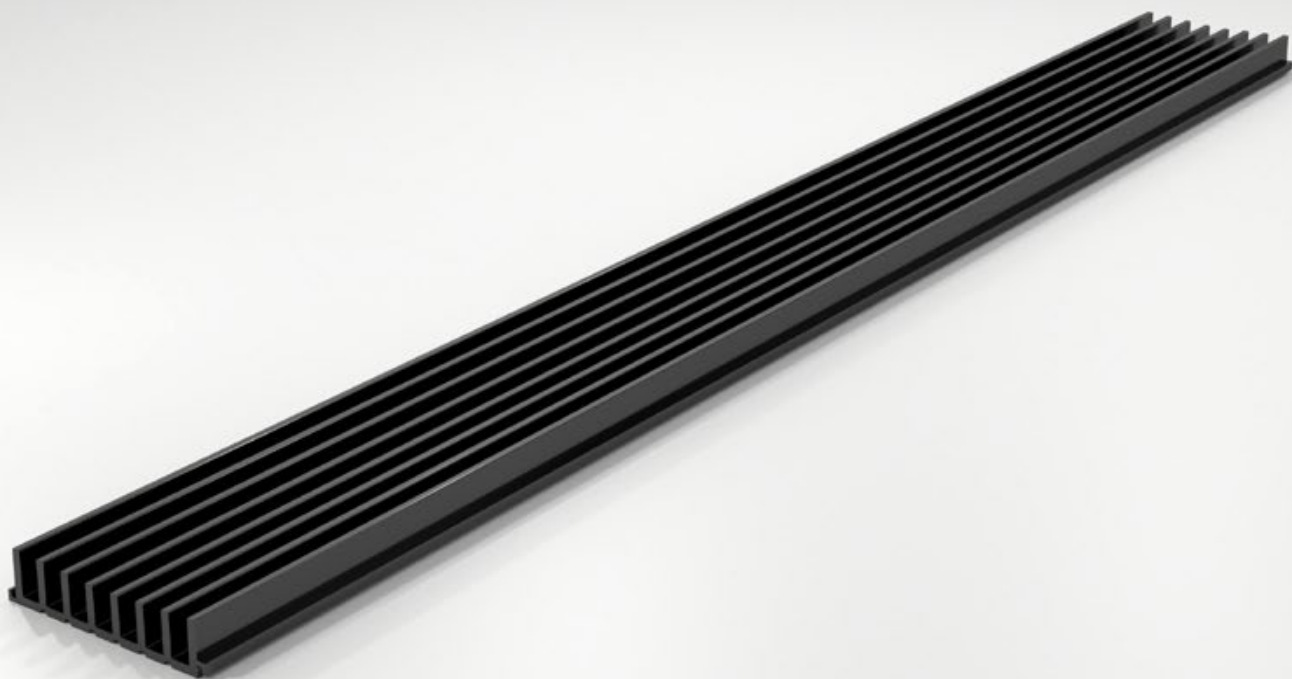
Class F 900

Type	Nominal width mm	Art. No.	kg	Pallet	
L element 500 mm 2 elements	120	680005050	10,1	-	
T- element 500 mm 3 elements	120	680005090	16,6	-	
Intersection element 500 mm 4 elements	120	680005080	21,5	-	



SYSTEM HYDRO*line* PRO

Product benefits



SYSTEM HYDROline PRO

Product benefits

CLASS
F 900

Test load 900 kN

Ideal for terraces, garages, balconies and heavy wheel loads.



Made of Aluminium

Aluminium is corrosion resistant, 100 % recyclable, temperature and UV resistant, solid and impact resistant. HYDROline PRO is powder coated and can be supplied without powder coating on request.



Ultra-flat, rattle free and pedestrian-friendly

The channel is only 30 mm high, 3000 mm long and with a slot width of 12 mm, it is perfectly designed for pedestrians. The drainage channel is rattle free due to the monolithic design.



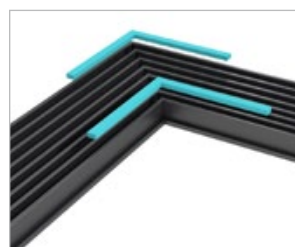
Nominal width expandable

The channel can be fitted at the sides, allowing the nominal width to be extended as required.



Vertical outlet

Vertical outlet with an easily removable grating and integrated connection for an outlet pipe (Ø100).



Special elements

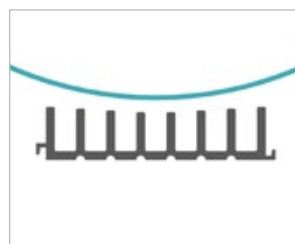
HYDROline PRO provides special elements with installation aid for special areas, which simplifies the installation.

- L element
- T element
- Intersection element



TYPE I

The channel does not require a concrete encasement and can be asphalted or paved directly up against. This offers architectural freedom.



Concave arrangement

The concave arrangement of the slots serves to enhance the transport energy so that the water is well drained even on slight slopes. This in particular prevents flooding.

SYSTEM HYDROline PRO

Class F 900



Vertical outlet



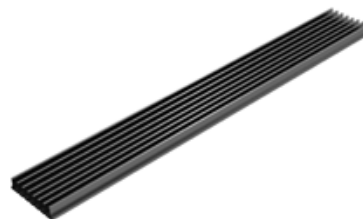
L element



T element



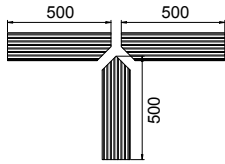
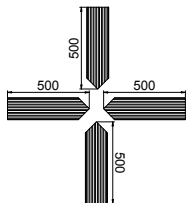
Intersection element



Type	Nominal width mm	Art. no.	kg	Pallet	
Basic element 3000 mm	135	680300004	12,6	-	
Basic element 1000 mm	135	6803000041	6,3	-	
Vertical outlet 200 mm	135	68035020	1,0	-	
L element 500 mm 2 elements	135	7003750	3,6	-	

SYSTEM HYDROline PRO

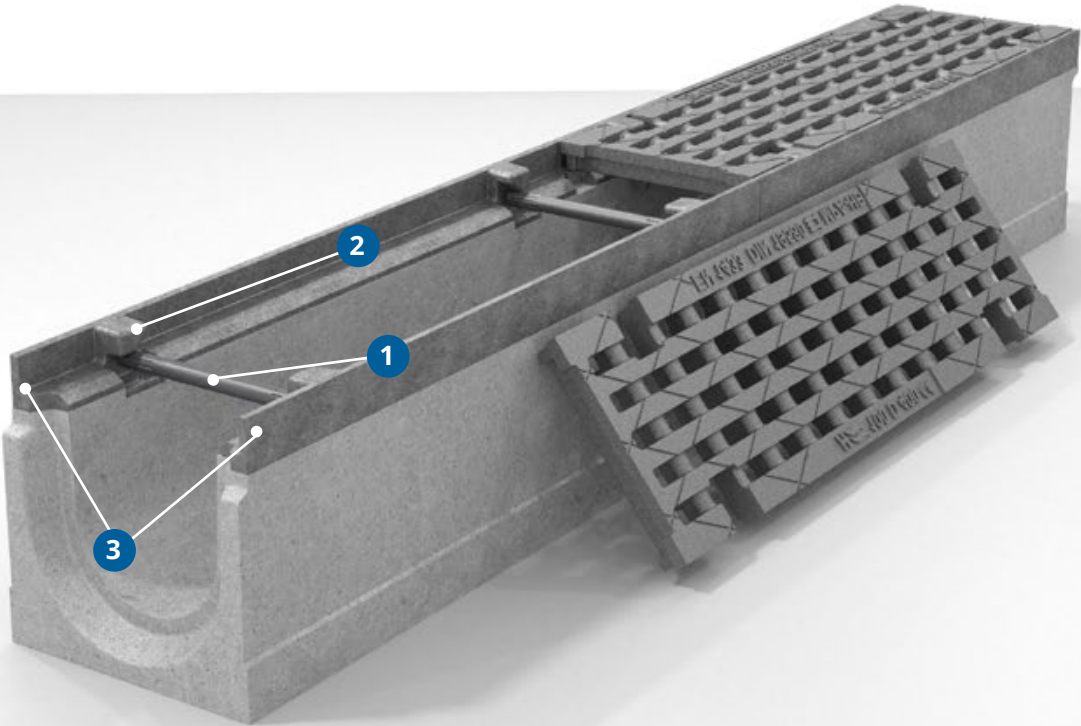
Class F 900

Type	Nominal width mm	Art. no.	kg	Pallet	
T element 500 mm 3 elements	135	7003790	6,0	-	
Intersection element 500 mm 4 elements	135	7003780	7,8	-	



SYSTEM MAXI

Product benefits



SYSTEM MAXI

Product benefits

CLASS
C 250 - F 900

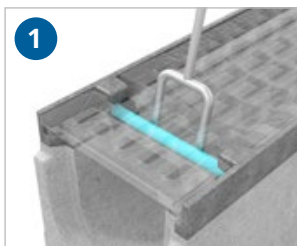
Test load 250 kN to 900 kN
EN 1433

Ideal for road surfaces,
industry, airport surfaces,
docks and heavy wheel loads.



Gratings made of
ductile iron

Ductile iron (ductile iron with
nodular graphite) is robust, can
withstand high static loads.



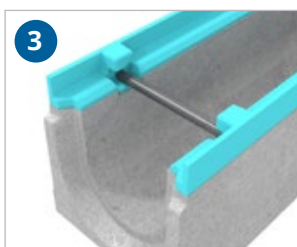
Screwless locking system

Easy opening and closing
with the installation bar
(accessories).



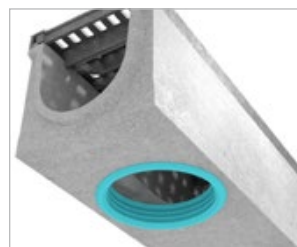
Longitudinal restraints

With 8 safety points per meter,
braking forces are effectively
absorbed and discharged.



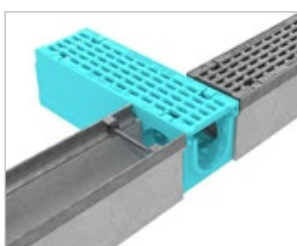
Edge protection

The 5 mm powerful ductile iron
edge protection provides the
highest stability in all load classes.



Vertical outlet

Liquid-tight connection
for ground pipes.



Special element

The special element permits
extension of the channel run with
the required branches. It can also
be fitted as a corner or T-element.



Gratings

Gratings are available in
different designs.

SYSTEM MAXI 100

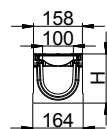
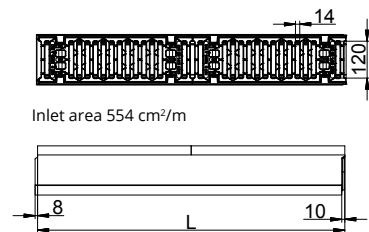
Class C 250

IRON EDGE PROTECTION AND GRATING

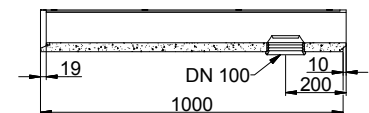
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	61131 000	46,6	24
	185	185	61131 050	49,2	
	210	210	61131 100	52,9	
	235	235	61131 150	54,2	
	260	260	61131 200	55,5	
Basic element 500 mm	160	160	61131 005	23,0	48
	185	185	61131 055	24,6	
	210	210	61131 105	27,0	
	235	235	61131 155	27,1	
Vertical outlet* 1000 mm	160	160	61131 0007	45,9	24
	185	185	61131 0507	48,5	
	210	210	61131 1007	52,2	
	235	235	61131 1507	53,6	
	260	260	61131 2007	54,8	
Special element 500 mm	160	160	61131 006	22,0	-
	185	185	61131 056	23,6	
	210	210	61131 106	26,0	
	235	235	61131 156	26,1	
Feed box**, 500 mm	500	500	61131 008	51,0	10
Elements with slope 0,5 %*** 1000 mm	160	165	61131 011	47,0	24
	165	170	61131 021	47,5	
	170	175	61131 031	48,0	
	175	180	61131 041	48,5	
	180	185	61131 051	49,0	
	185	190	61131 061	49,7	
	190	195	61131 071	50,5	
	195	200	61131 081	51,2	
200	205	61131 091	51,9		
205	210	61131 101	52,6		



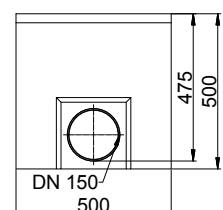
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 100

Class C 250

IRON EDGE PROTECTION AND GRATING - LOW PROFILE

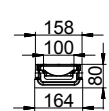
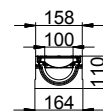
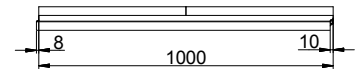
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	80	80	6113100 00080	25,4	24
	110	110	6113100 00110	35,4	
Basic element 500 mm	80	80	6113100 50080	12,7	48
	110	110	6113100 50110	17,8	
Vertical outlet* 1000 mm	80	80	6113100 70080	24,4	24
	110	110	6113100 70110	34,4	



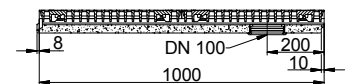
Basic element



Inlet area 554 cm²/m



Vertical outlet



SYSTEM MAXI 100

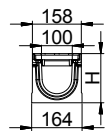
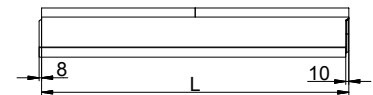
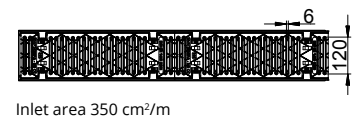
Class C 250

IRON EDGE PROTECTION AND GRATING - SLOT 6 MM

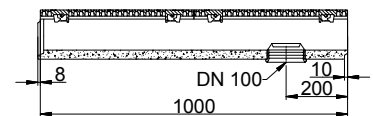
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	61133000	48,4	24
	185	185	61133050	51,0	
	210	210	61133100	54,7	
	235	235	61133150	56,2	
	260	260	61133200	60,0	
Basic element 500 mm	160	160	61133005	23,9	48
	185	185	61133055	25,5	
	210	210	61133105	27,4	
	235	235	61133155	28,0	
	260	260	61133205	30,0	
Vertical outlet* 1000 mm	160	160	611330007	47,4	24
	185	185	611330507	50,0	
	210	210	611331007	53,7	
	235	235	611331507	55,2	
	260	260 <td 611332007	59,0		
Special element 500 mm	160	160	61133006	23,0	-
	185	185	61133056	24,5	
	210	210	61133106	26,4	
	235	235	61133156	27,0	
	260	260	61133206	29,0	
Feed box**, 500 mm	500	500	61133008	51,9	10
Elements with slope 0,5 %*** 1000 mm	160	165	61133011	48,8	24
	165	170	61133021	49,3	
	170	175	61133031	49,8	
	175	180	61133041	50,4	
	180	185	61133051	50,8	
	185	190	61133061	51,5	
	190	195	61133071	52,3	
	195	200	61133081	53,0	
200	205	61133091	53,7		
205	210	61133101	54,3		



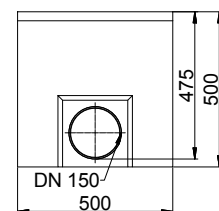
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 100

Class C 250

IRON EDGE PROTECTION AND GRATING - SLOT 6 MM – LOW PROFILE  

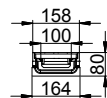
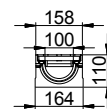
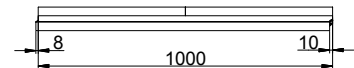
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	80	80	6113300 00080	35,9	24
	110	110	6113300 00110	40,5	
Basic element 500 mm	80	80	6113300 50080	17,9	48
	110	110	6113300 50110	20,1	
Vertical outlet* 1000 mm	80	80	6113300 70080	34,9	24
	110	110	6113300 70110	39,5	



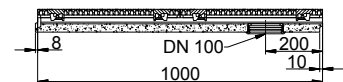
Basic element



Inlet area 350 cm²/m



Vertical outlet



SYSTEM MAXI 100

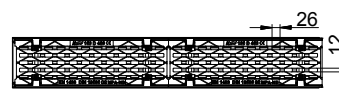
Class D 400

IRON EDGE PROTECTION AND GRATING

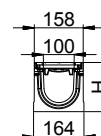
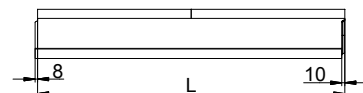
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	61140000	48,3	24
	185	185	61140050	50,5	
	210	210	61140100	54,6	
	235	235	61140150	59,0	
	260	260	61140200	63,0	
Basic element 500 mm	160	160	61140005	24,6	48
	185	185	61140055	26,0	
	210	210	61140105	27,3	
	235	235	61140155	29,5	
	260	260	61140205	31,5	
Vertical outlet* 1000 mm	160	160	61140007	47,3	24
	185	185	61140057	49,5	
	210	210	61140107	53,6	
	235	235	61140157	58,0	
	260	260	61140207	62,0	
Special element 500 mm	160	160	61140006	23,6	-
	185	185	61140056	25,0	
	210	210	61140106	26,3	
	235	235	61140156	28,5	
	260	260	61140206	30,5	
Feed box**, 500 mm	500	500	61140008	52,0	10
Elements with slope 0,5 %*** 1000 mm	160	165	61140011	48,5	24
	165	170	61140021	48,9	
	170	175	61140031	49,3	
	175	180	61140041	49,8	
	180	185	61140051	50,2	
	185	190	61140061	51,0	
	190	195	61140071	51,8	
	195	200	61140081	52,6	
200	205	61140091	53,4		
205	210	61140101	54,1		



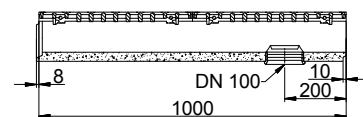
Basic element



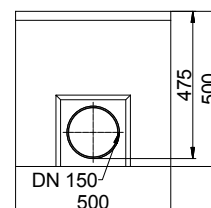
Inlet area 512 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI 100

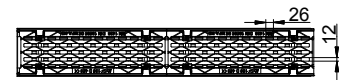
Class D 400

IRON EDGE PROTECTION AND GRATING / LOW PROFILE

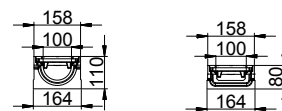
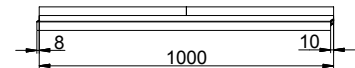
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	80	80	6114000 00080	35,1	24
	110	110	6114000 00110	38,1	
Basic element 500 mm	80	80	6114000 50080	17,5	48
	110	110	6114000 50110	19,1	
Vertical outlet* 1000 mm	80	80	6114000 70080	34,1	24
	110	110	6114000 70110	37,1	



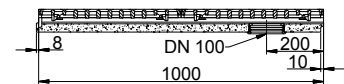
Basic element



Inlet area 512 cm²/m



Vertical outlet



SYSTEM MAXI 100

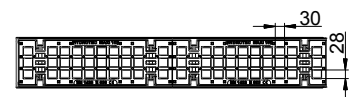
Class E 600

IRON EDGE PROTECTION AND MESH GRATING 30/28

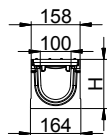
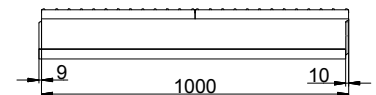
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	62150000	48,0	24
	185	185	62150050	50,2	
	210	210	62150100	54,7	
	235	235	62150150	60,0	
	260	260	62150200	64,5	
Basic element 500 mm	160	160	62150005	24,0	48
	185	185	62150055	25,8	
	210	210	62150105	27,4	
	235	235	62150155	30,0	
	260	260	62150205	32,0	
Vertical outlet* 1000 mm	160	160	62150007	47,0	24
	185	185	62150057	49,2	
	210	210	62150107	53,7	
	235	235	62150157	59,0	
	260	260	62150207	63,5	
Special element 500 mm	160	160	62150006	23,0	-
	185	185	62150056	24,8	
	210	210	62150106	26,4	
	235	235	62150156	29,0	
	260	260	62150206	31,0	
Feed box**, 500 mm	500	500	62150008	50,5	10
Elements with slope 0,5 %*** 1000 mm	160	165	62150011	48,3	24
	165	170	62150021	48,6	
	170	175	62150031	49,0	
	175	180	62150041	49,4	
	180	185	62150051	49,8	
	185	190	62150061	50,7	
	190	195	62150071	51,5	
	195	200	62150081	52,3	
200	205	62150091	53,1		
205	210	62150101	53,8		



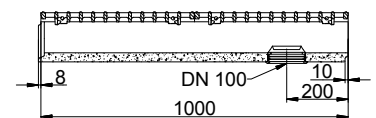
Basic element



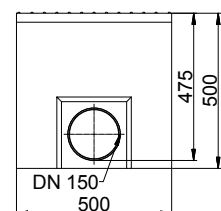
Inlet area 620 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI 100

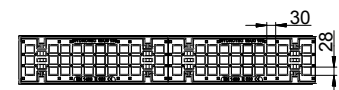
Class E 600

IRON EDGE PROTECTION AND MESH GRATING 30/28 / LOW PROFILE 

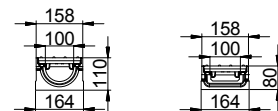
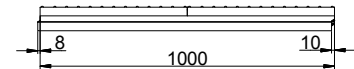
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	80	80	6215000 00080	32,5	24
	110	110	6215000 00110	36,3	
Basic element 500 mm	80	80	6215000 50080	16,3	48
	110	110	6215000 50110	18,2	
Vertical outlet* 1000 mm	80	80	6215000 70080	31,5	24
	110	110	6215000 70110	35,3	



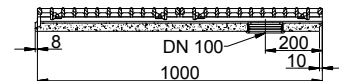
Basic element



Inlet area 620 cm²/m



Vertical outlet



SYSTEM MAXI 100

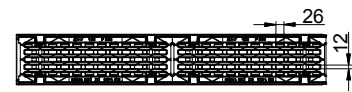
Class F 900

IRON EDGE PROTECTION AND GRATING

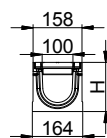
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	61160000	51,0	24
	185	185	61160050	54,7	
	210	210	61160100	58,6	
	235	235	61160150	62,5	
	260	260	61160200	65,0	
Basic element 500 mm	160	160	61160005	25,5	48
	185	185	61160055	27,4	
	210	210	61160105	29,3	
	235	235	61160155	31,3	
	260	260	61160205	32,5	
Vertical outlet* 1000 mm	160	160	61160007	50,0	24
	185	185	61160057	53,7	
	210	210	61160107	57,6	
	235	235	61160157	61,5	
	260	260	61160207	65,0	
Special element 500 mm	160	160	61160006	24,5	-
	185	185	61160056	26,4	
	210	210	61160106	28,3	
	235	235	61160156	30,3	
	260	260	61160206	32,5	
Feed box**, 500 mm	500	500	61160008	50,5	10
Elements with slope 0,5 %*** 1000 mm	160	165	61160011	51,2	24
	165	170	61160021	52,0	
	170	175	61160031	52,8	
	175	180	61160041	53,6	
	180	185	61160051	54,3	
	185	190	61160061	55,0	
	190	195	61160071	55,8	
	195	200	61160081	56,5	
200	205	61160091	57,4		
205	210	61160101	58,2		



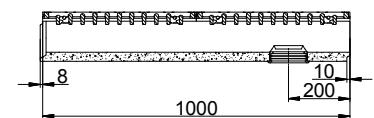
Basic element



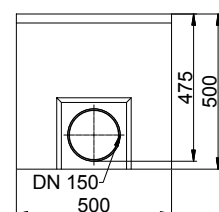
Inlet area 512 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI 100

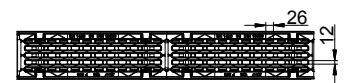
Class F 900

IRON EDGE PROTECTION AND GRATING / LOW PROFILE

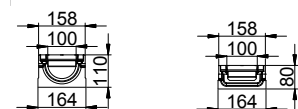
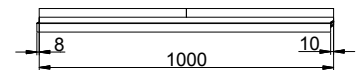
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	80	80	6116000 00080	38,3	24
	110	110	6116000 00110	44,5	
Basic element 500 mm	80	80	6116000 50080	19,2	48
	110	110	6116000 50110	22,2	
Vertical outlet* 1000 mm	80	80	6116000 70080	37,3	24
	110	110	6116000 70110	43,5	



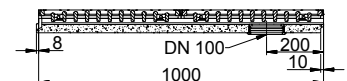
Basic element



Inlet area 512 cm²/m



Vertical outlet



SYSTEM MAXI 150

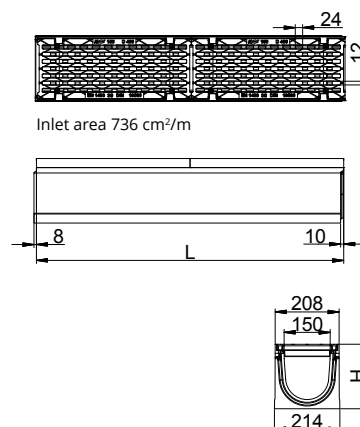
Class D 400

IRON EDGE PROTECTION AND GRATING

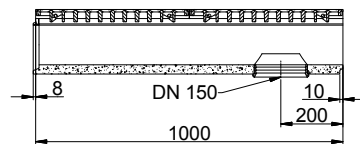
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	210	210	61540000	68,2	20
	260	260	61540050	75,6	
	310	310	61540100	81,0	
Basic element 500 mm	210	210	61540005	34,1	40
	260	260	61540055	37,8	
	310	310	61540105	40,5	
Vertical outlet* 1000 mm	210	210	61540007	67,2	20
	260	260	61540057	74,6	
	310	310	61540107	80,0	
Special element 500 mm	210	210	61540006	33,1	-
	260	260	61540056	36,8	
	310	310	61540106	39,5	
Feed box** 500 mm	550	550	61540008	66,0	8
Elements with slope 1 % 1000 mm	210	220	61540011	69,0	20
	220	230	61540021	70,5	
	230	240	61540031	72,0	
	240	250	61540041	73,5	
	250	260	61540051	75,0	
	260	270	61540061	76,2	15
	270	280	61540071	77,2	
	280	290	61540081	78,2	
290	300	61540091	79,2		
300	310	61540101	80,2		



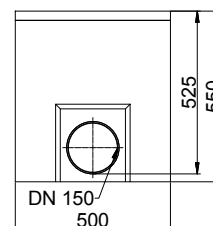
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 150

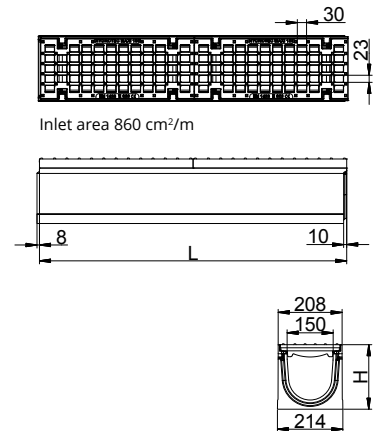
Class E 600

IRON EDGE PROTECTION AND MESH GRATING 30/23

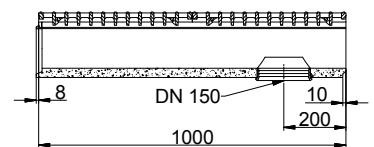
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	210	210	62550000	68,8	20
	260	260	62550050	76,2	
	310	310	62550100	81,6	
Basic element 500 mm	210	210	62550005	34,4	40
	260	260	62550055	38,1	
	310	310	62550105	40,8	
Vertical outlet* 1000 mm	210	210	62550007	67,8	20
	260	260	62550057	75,2	
	310	310	62550107	80,6	
Special element 500 mm	210	210	62550006	33,4	-
	260	260	62550056	37,1	
	310	310	62550106	39,8	
Feed box** 500 mm	550	550	62550008	66,5	8
Elements with slope 1 % 1000 mm	210	220	62550011	69,6	20
	220	230	62550021	70,9	
	230	240	62550031	72,5	
	240	250	62550041	73,9	
	250	260	62550051	75,6	
	260	270	62550061	76,8	
	270	280	62550071	77,8	15
	280	290	62550081	78,8	
	290	300	62550091	79,8	
	300	310	62550101	80,8	



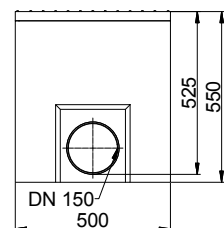
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 150

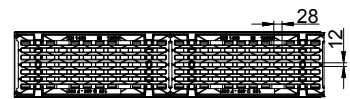
Class F 900

IRON EDGE PROTECTION AND GRATING

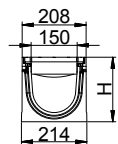
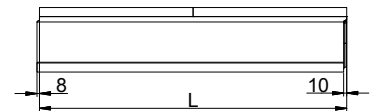
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	210	210	61560000	79,0	20
	260	260	61560050	87,6	
	310	310	61560100	92,0	
Basic element 500 mm	210	210	61560005	39,5	40
	260	260	61560055	43,8	
	310	310	61560105	46,0	
Vertical outlet* 1000 mm	210	210	61560007	78,0	20
	260	260	61560057	86,6	
	310	310	61560107	91,0	
Special element 500 mm	210	210	61560006	38,5	-
	260	260	61560056	42,8	
	310	310	61560106	45,0	
Feed box** 500 mm	550	550	61560008	71,0	8
Elements with slope 1 % 1000 mm	210	220	61560011	79,6	20
	220	230	61560021	81,5	
	230	240	61560031	83,5	
	240	250	61560041	84,5	
	250	260	61560051	86,0	
	260	270	61560061	87,2	
	270	280	61560071	88,2	15
	280	290	61560081	89,2	
	290	300	61560091	90,2	
	300	310	61560101	91,0	



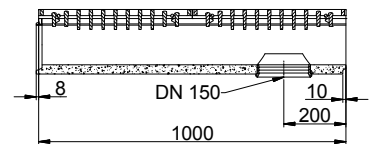
Basic element



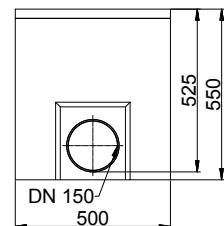
Inlet area 736 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI 200

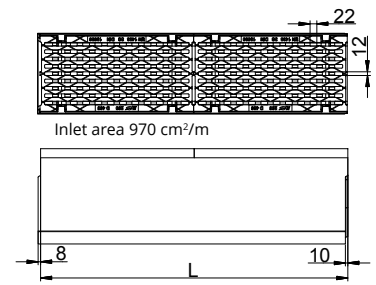
Class D 400

IRON EDGE PROTECTION AND GRATING

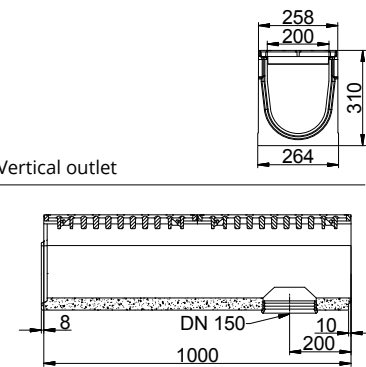
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	310	310	61240050	104,0	12
Basic element 500 mm			61240055	52,0	24
Vertical outlet* 1000 mm			61240057	103,0	12
Special element 500 mm			61240056	51,0	-
Feed box** 500 mm	550	550	61240008	71,0	6



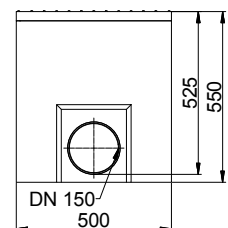
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 200

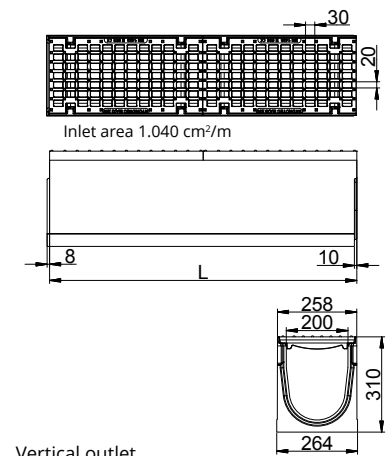
Class E 600

IRON EDGE PROTECTION AND MESH GRATING 30/20

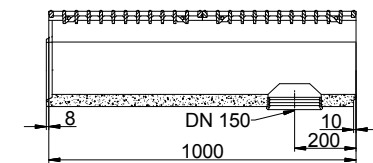
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	310	310	62250050	100,0	12
Basic element 500 mm			62250055	50,0	24
Vertical outlet* 1000 mm			62250057	99,0	12
Special element 500 mm			62250056	49,0	-
Feed box** 500 mm	550	550	62250008	68,5	6



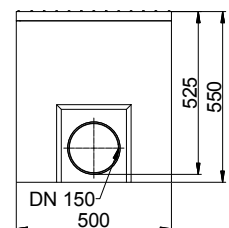
Basic element



Vertical outlet



Feed box



SYSTEM MAXI 200

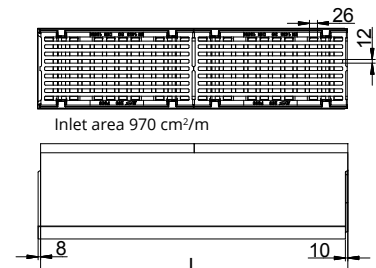
Class F 900

IRON EDGE PROTECTION AND GRATING

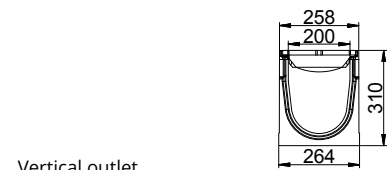
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	310	310	61260050	110,0	12
Basic element 500 mm			61260055	55,0	24
Vertical outlet* 1000 mm			61260057	109,0	12
Special element 500 mm			61260056	54,0	-
Feed box** 500 mm	550	550	61260008	72,0	6



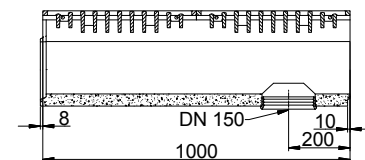
Basic element



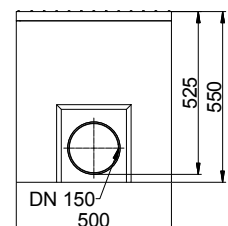
Inlet area 970 cm²/m



Vertical outlet

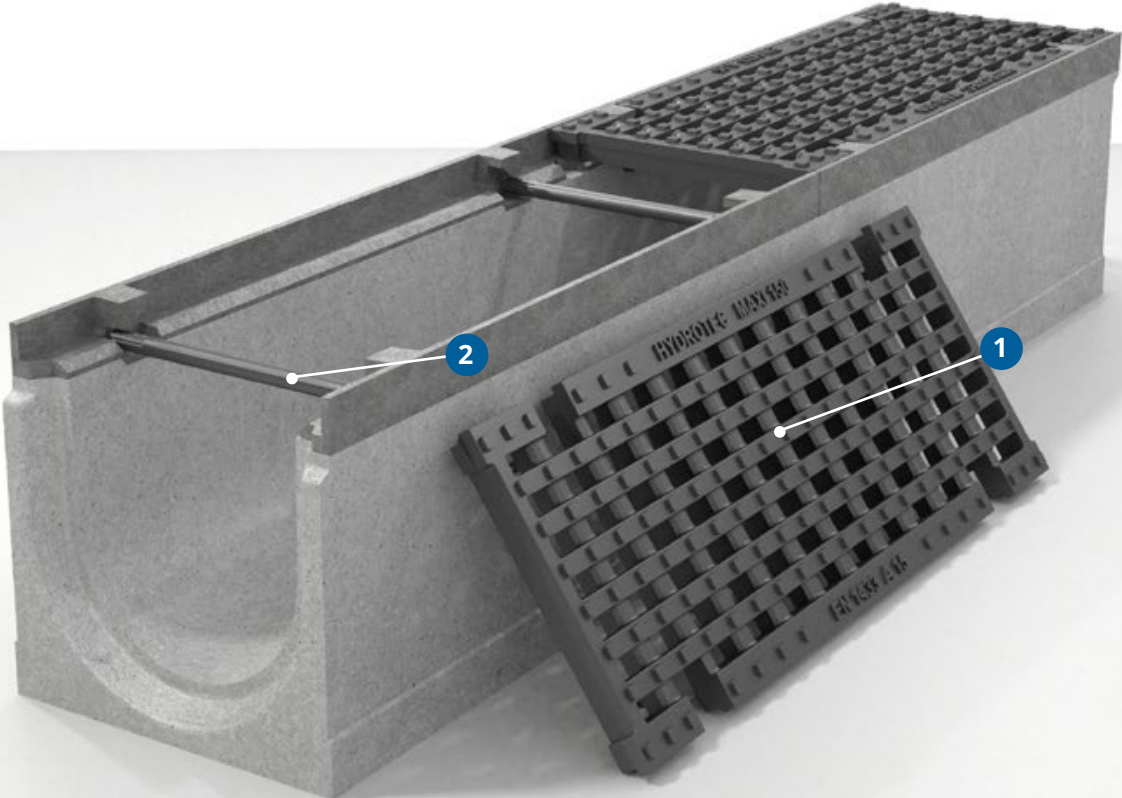


Feed box



SYSTEM MAXI - GRATING MADE OF POLYAMIDE

Product benefits



SYSTEM MAXI - GRATING MADE OF POLYAMIDE

Product benefits



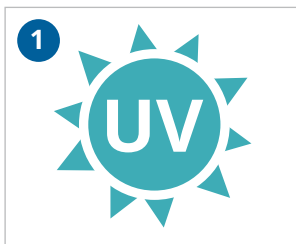
Test load 15 kN
EN 1433

Ideal for walkways, cycling paths,
green areas and car parking areas.



Corrosion protection

No damages due to enviromental
influences.



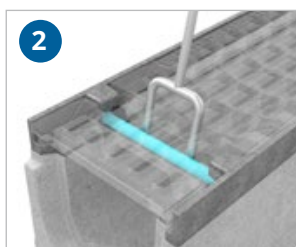
UV resistance

Warranty for a good UV resistance,
which prevents yellow tone, fading
and cracking.



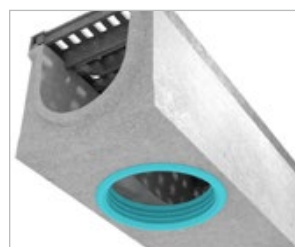
Slip-resistant

The grating made of polyamide
ensures a high slip-resistants to
DIN 51130 (R11).



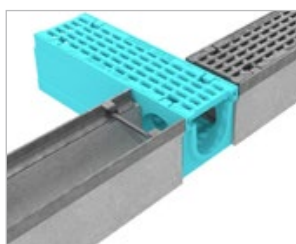
Screwless locking system

Easy opening and closing
with the installation bar
(accessories).



Vertical outlet

Liquid-tight connection
for ground pipes.



Special element

The special element permits
extension of the channel run with
the required branches. It can also
be fitted as a corner or T-element.

SYSTEM MAXI - GRATING MADE OF POLYAMIDE

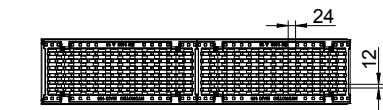
Class A 15

IRON EDGE PROTECTION WITH GRATING MADE OF POLYAMIDE

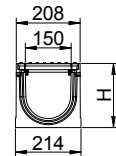
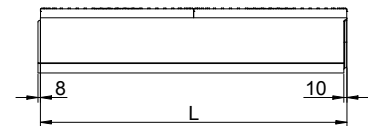
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	210	210	61510000	59,3	20
	260	260	61510050	69,0	
	310	310	61510100	75,0	
Basic element 500 mm	210	210	61510005	27,8	40
	260	260	61510055	31,5	
	310	310	61510105	34,2	
Vertical outlet* 1000 mm	210	210	61510007	60,9	20
	260	260	61510057	68,3	
	310	310	61510107	73,7	
Special element 500 mm	210	210	61510006	26,8	-
	260	260	61510056	29,5	
	310	310	61510106	32,9	
Feed box** 500 mm	550	550	61510008	59,7	8
Element with slopes 1 % 1000 mm	210	220	61510011	63,0	20
	220	230	61510021	63,9	
	230	240	61510031	65,7	
	240	250	61510041	66,9	
	250	260	61510051	68,7	
	260	270	61510061	69,9	
	270	280	61510071	70,9	
	280	290	61510081	71,9	
	290	300	61510091	72,9	
	300	310	61510101	73,9	



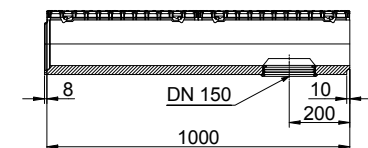
Basic element



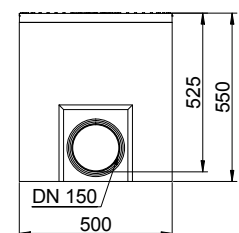
Inlet area 736 cm²/m



Vertical outlet



Feed box



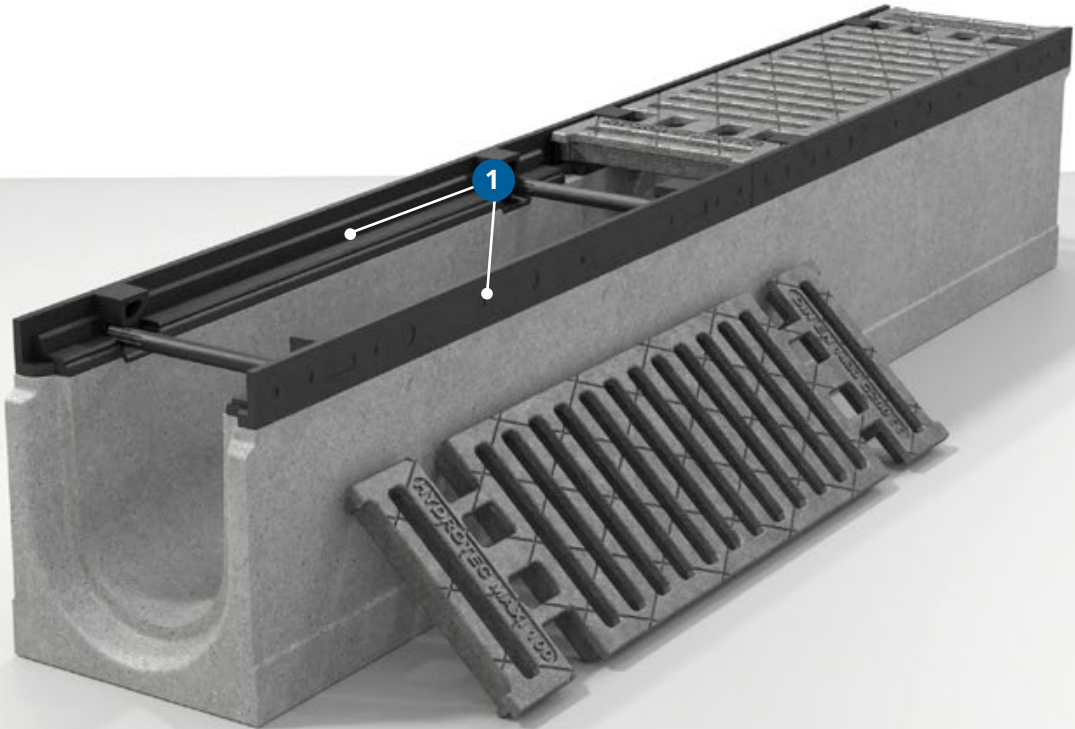
SYSTEM MAXI - GRATING MADE OF POLYAMIDE

Train station in Potsdam (Germany)



SYSTEM MAXIpur

Product benefits



NEW

UNIQUE WORLDWIDE!
RATTLE FREE!

SYSTEM MAXIpur

Product benefits

CLASS

A 15 - D 400

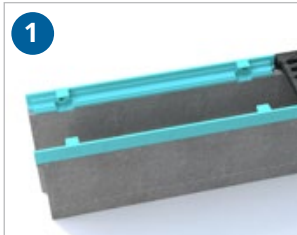
Test load 250 kN to 400 kN
EN 1433 and DIN 19580

Ideal for walkways, cycling paths,
green areas, car parking areas and
road surfaces.



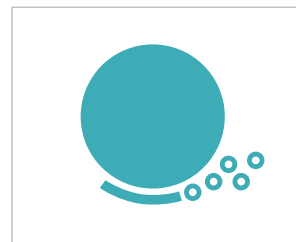
Rattle-free

When force is applied, the cast iron grating meets the polyurethane damping insert and no other cast elements. The insert ensures rattle-free function.



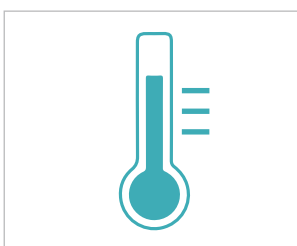
Minimum wear

The monolithic, firmly bonded insert ensures a better balance of forces and less wear on the materials. Depending on the load on the channel, longer operating times are possible.



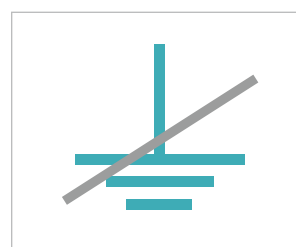
Abrasion

The insert has a more than **93 %** lower abrasion value compared to an insert made of polychloroprene!



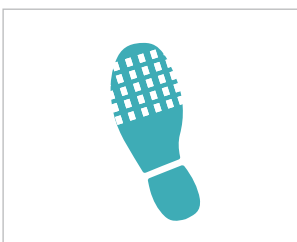
Heat resistance

The heat resistance of the drainage channel is about 200°C, so they are not damaged even when laying in hot asphalt.



Grounded-free

The combination between the grating made of polyamide, the drainage channel does not conduct electricity and is perfect for pedestrian areas (e.g. train stations, bus stops, suburban railways).



Slip-resistance

The following gratings ensure a high slip-resistance to DIN 51130:

- grating made of polyamide, class A 15 (slip-resistance 11)
- grating made of cast iron, class D 400 (slip-resistance 10)



Resistance

The insert is resistant to the following substances (measured on the test specimens after 200 hours storage at room temperature):

- frost and de-icing salt resistant
- chemically resistant
- mineral oil resistant

SYSTEM MAXIpur 100

Class C 250

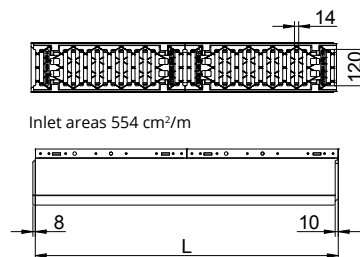
EDGE PROTECTION MADE OF POLYAMIDE WITH IRON GRATING

Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	185	185	611310503	41,6	24
Basic element 500 mm			611310553	20,8	48
Vertical outlet* 1000 mm			6113105073	40,9	24
Special element 500 mm			611310563	19,8	-
Feedbox** 500 mm	500	500	611310083	46,0	10

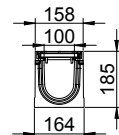
Further heights/elements with slope on request!



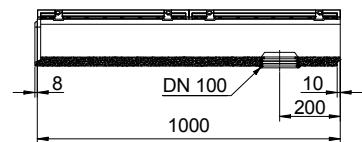
Basic element



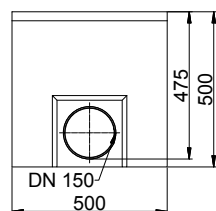
Inlet areas 554 cm²/m



Vertical outlet




Feedbox



SYSTEM MAXIpur 100

Class C 250

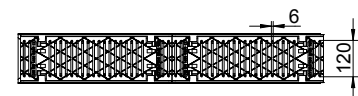
EDGE PROTECTION MADE OF POLYAMIDE WITH IRON GRATING / SLOT WIDTH 6 MM  					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet

Basic element 1000 mm	185	185	611330 503	43,4	24
Basic element 500 mm			611330 553	21,7	48
Vertical outlet* 1000 mm			611330 5073	42,4	24
Special element 500 mm			611330 563	20,7	-
Feedbox** 500 mm	500	500	611330 083	46,9	10

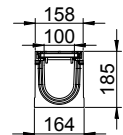
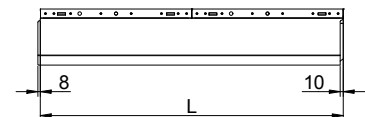
Further heights/elements with slope on request!



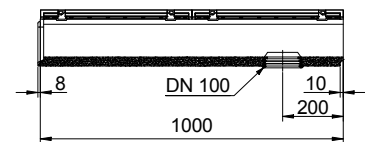
Basic element



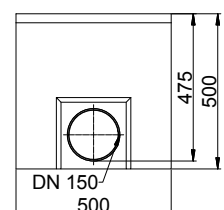
Inlet areas 350 cm²/m



Vertical outlet



Feedbox



SYSTEM MAXIpur 100

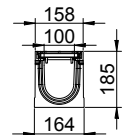
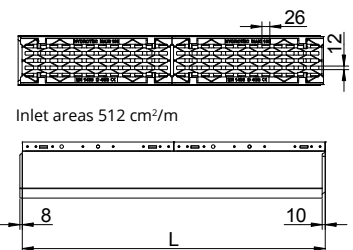
Class D 400

EDGE PROTECTION MADE OF POLYAMIDE WITH IRON GRATING

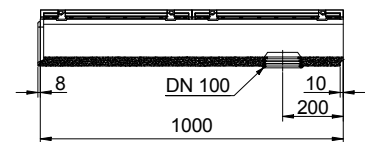
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	185	185	611400 503	43,3	24
Basic element 500 mm			611400 553	21,7	48
Vertical outlet* 1000 mm			611400 5073	42,3	24
Special element 500 mm			611400 563	20,7	-
Feedbox** 500 mm	500	500	611400 083	47,0	10



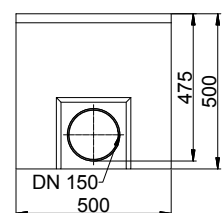
Basic element



Vertical outlet



Feedbox



Further heights/elements with slope on request!

SYSTEM MAXIpur 150

Class A 15

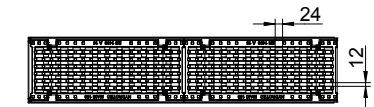
EDGE PROTECTION AND GRATING MADE OF POLYAMIDE 

Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	260	260	615100 504	58,2	20
Basic element 500 mm			615100 554	29,1	40
Vertical outlet* 1000 mm			615100 574	57,0	20
Special element 500 mm			615100 564	28,0	-
Feedbox** 500 mm	550	550	615100 084	54,7	8

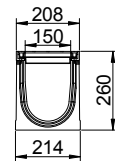
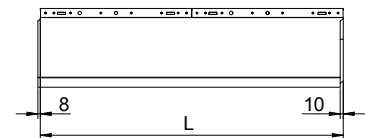
Further heights/elements with slope on request!



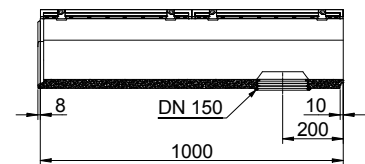
Basic element



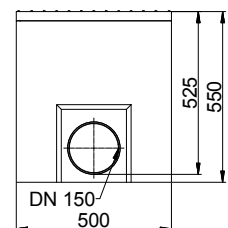
Inlet areas 736 cm²/m



Vertical outlet



Feedbox



SYSTEM MAXIpur 150

Class D 400

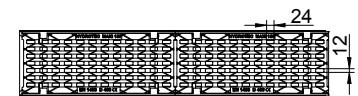
EDGE PROTECTION MADE OF POLYAMIDE WITH IRON GRATING

Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	260	260	615400 503	70,8	20
Basic element 500 mm			615400 553	35,4	40
Vertical outlet* 1000 mm			615400 5073	70,0	20
Special element 500 mm			615400 563	34,4	-
Feedbox** 500 mm	550	550	615400 083	66,0	8

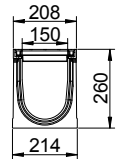
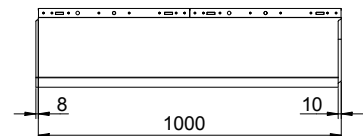
Further heights/elements with slope on request!



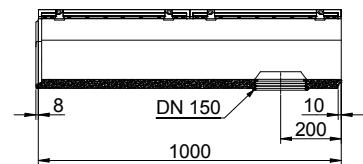
Basic element



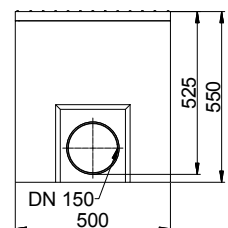
Inlet areas 736 cm²/m



Vertical outlet



Feedbox



SYSTEM MAXIpur 200

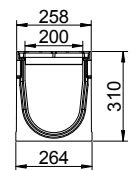
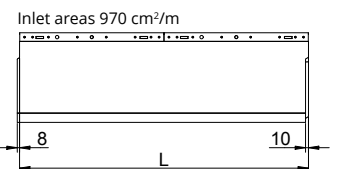
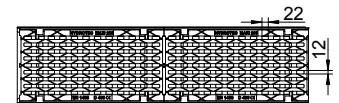
Class D 400

EDGE PROTECTION MADE OF POLYAMIDE WITH IRON GRATING 

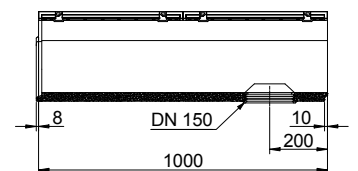
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	310	310	61240 0503	99,2	12
Basic element 500 mm			61240 0553	49,6	24
Vertical outlet* 1000 mm			61240 05073	98,2	12
Special element 500 mm			61240 0563	48,6	-
Feedbox** 500 mm	550	550	61240 0083	66,2	6



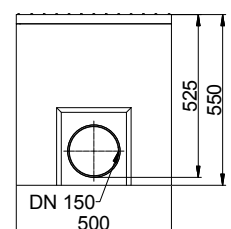
Basic element



Vertical outlet

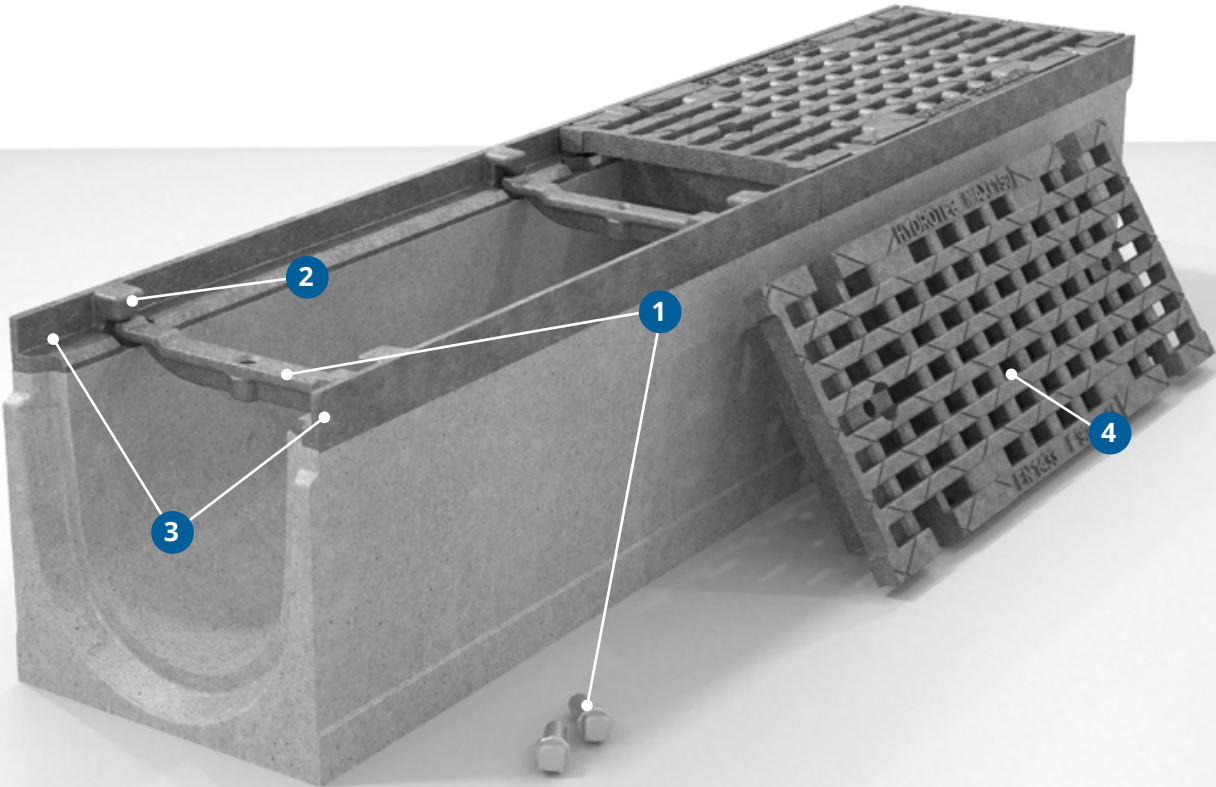


Feedbox



SYSTEM MAXI F1

Product benefits



SYSTEM MAXI F1

Product benefits

CLASS
F 900

Test load 900 kN
EN 1433

Ideal for airport surfaces,
docks, racing tracks and
very heavy wheel loads.



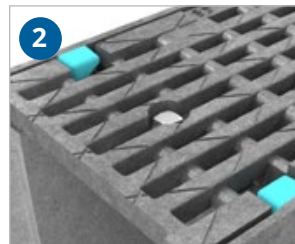
Gratings made of
ductile iron

Ductile iron (ductile iron with
nodular graphite) is robust, can
withstand high static loads.



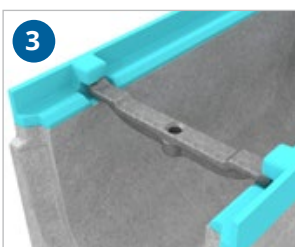
Special locking system

Four special screw bars per
meter guarantee traffic safety in all
load classes and ensure that the
MAXI F1 also satisfies the highest
safety requirements.



Longitudinal restraints

With 8 safety points per meter,
braking forces are effectively
absorbed and discharged.



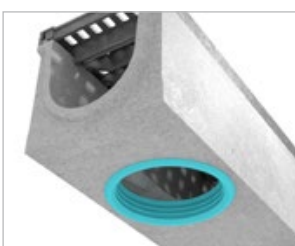
Edge protection

The 5 mm powerful ductile iron
edge protection provides the
highest stability in all load classes.



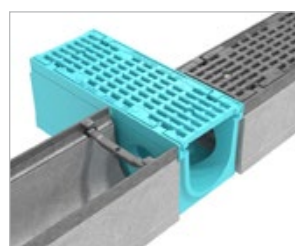
Longitudinal slots

Longitudinal slots prevent
water overflow and allow
double water absorption.



Vertical outlet

Liquid-tight connection
for ground pipes.



Special element

The special element permits
extension of the channel run with
the required branches. It can also
be fitted as a corner or T-element.

SYSTEM MAXI F1 100

Class F 900

IRON EDGE PROTECTION AND GRATING

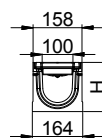
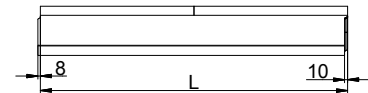
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	160	160	611600001	55,5	24
Basic element 500 mm			611600051	27,8	48
Vertical outlet* 1000 mm			611600071	54,5	24
Special element 500 mm			611600061	26,8	-
Feed box** 500 mm	500	500	611600081	50,5	10



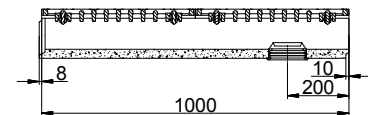
Basic element



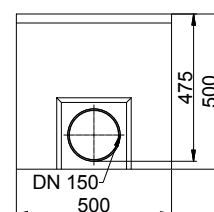
Inlet area 512 cm²/m



Vertical outlet



Feed box



Further heights/elements with slope on request!

SYSTEM MAXI F1 150

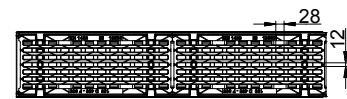
Class F 900

IRON EDGE PROTECTION AND GRATING

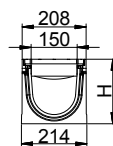
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	210	210	615600001	88,5	20
Basic element 500 mm			615600051	44,3	40
Vertical outlet* 1000 mm			615600071	87,5	20
Special element 500 mm			615600061	43,3	-
Feed box** 500 mm	550	550	615600081	71,0	8



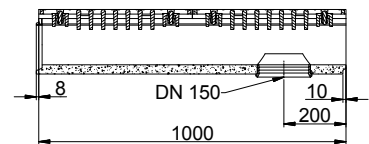
Basic element



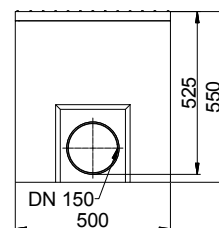
Inlet area 736 cm²/m



Vertical outlet



Feed box



Further heights/elements with slope on request!

SYSTEM MAXI F1 200

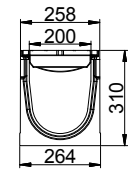
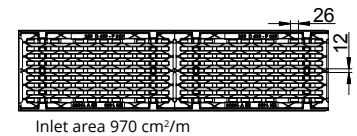
Class F 900

IRON EDGE PROTECTION AND GRATING

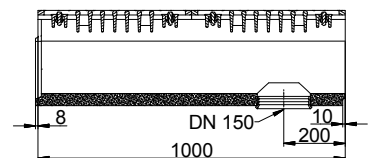
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	310	310	61260 0501	111,0	12
Basic element 500 mm			61260 0551	55,5	24
Vertical outlet* 1000 mm			61260 05071	110,0	12
Special element 500 mm			61260 0561	54,5	-
Feed box** 500 mm	550	550	61260 0081	72,0	6



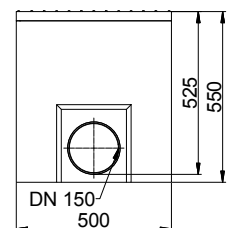
Basic element



Vertical outlet



Feed box



[to the table of contents >>](#)

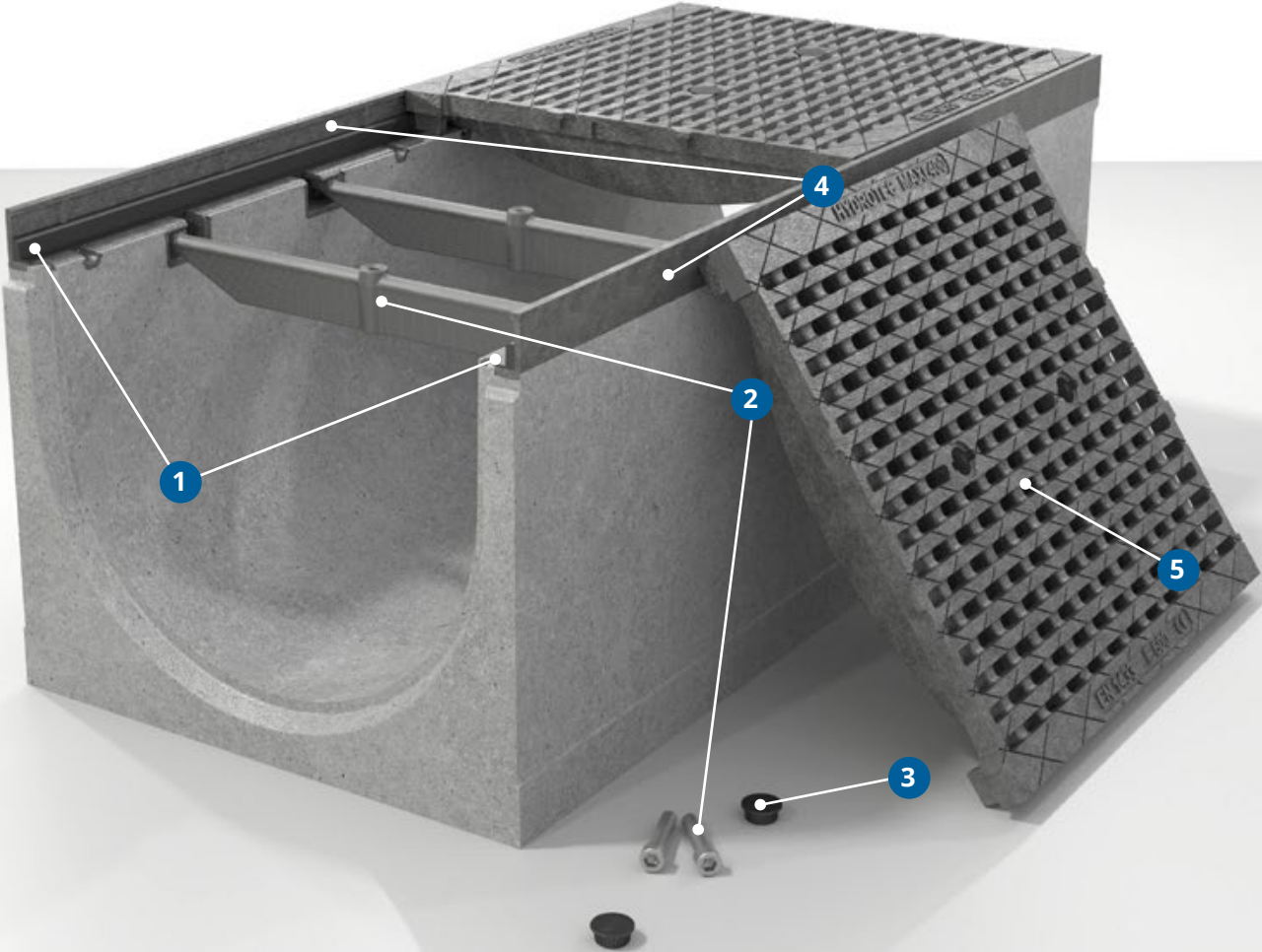
SYSTEM MAXI F1

Racing Track - Bilster Berg (Germany)



SYSTEM MAXI PRO

Product benefits



SYSTEM MAXI PRO

Product benefits

CLASS
E 600 / F 900

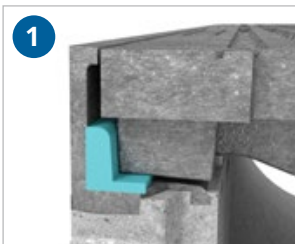
Test load 600 kN
to 900 kN, EN 1433

Ideal for industrial surfaces,
airport surfaces, docks and
very heavy wheel loads.



Gratings made of
ductile iron

Ductile iron (ductile iron with
nodular graphite) is robust, can
withstand high static loads.



Noiseless

A noiseless position of the
grating is ensured by the integra-
ted damping insert, because no
contact between the ductile iron
grating and the ductile iron edge
protection can occur.



Less maintenance

The integrated damping insert
ensures less wear on the castings.
This means that longer life cycles
are possible (depending on the
load on the channel). Due to the
longer life cycles, the greater the
return on investment.



Special locking system

MAXI PRO ensures maximum
traffic safety in all load classes
thanks to two special screw bolts
that firmly lock the grating and
the channel body together.



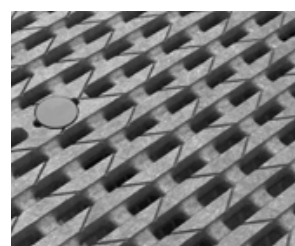
Protecting caps

Protecting caps for the locking
system provide additional
anti-slip protection of the screws
and protection against soiling.



Edge protection

The 5 mm powerful ductile iron
edge protection provides the
highest stability in all load classes.



Longitudinal slots

Longitudinal slots prevent
water overflow and allow
double water absorption.

SYSTEM MAXI PRO 300

Class E 600

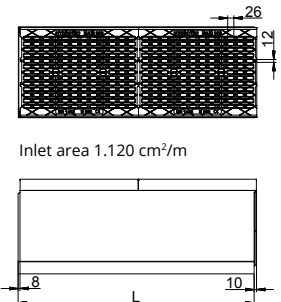
IRON EDGE PROTECTION AND GRATING

with damping insert					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	400	400	663500 502	196,3	6
Basic element 500 mm			663500 552	98,5	12
Vertical outlet* 1000 mm			663500 572	192,0	6
Feed box** 500 mm	750	750	663500 082	142,0	4

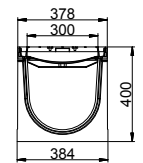
without damping insert					
Basic element 1000 mm	400	400	663500 501	196,3	6
Basic element 500 mm			663500 551	98,5	12
Vertical outlet* 1000 mm			663500 571	192,0	6
Feed box** 500 mm	750	750	663500 081	142,0	4



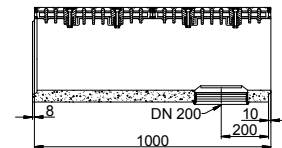
Basic element



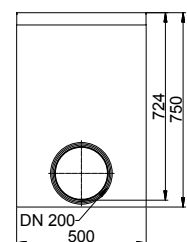
Inlet area 1.120 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI PRO 300

Class E 600

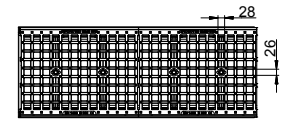
IRON EDGE PROTECTION AND MESH GRATING

with damping insert					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	400	400	623500 502	193,3	6
Basic element 500 mm			623500 552	96,5	12
Vertical outlet* 1000 mm			623500 572	189,0	6
Feed box** 500 mm	750	750	623500 082	139,0	4

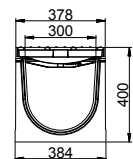
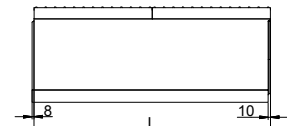
without damping insert					
Basic element 1000 mm	400	400	623500 501	193,3	6
Basic element 500 mm			623500 551	96,5	12
Vertical outlet* 1000 mm			623500 571	189,0	6
Feed box** 500 mm	750	750	623500 081	139,0	4



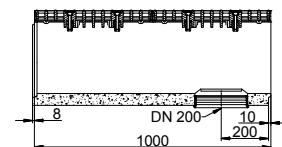
Basic element



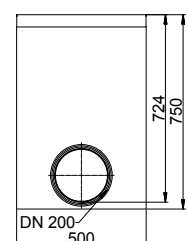
Inlet area 1.576 cm²/m



Vertical outlet



Feed box



SYSTEM MAXI PRO 300

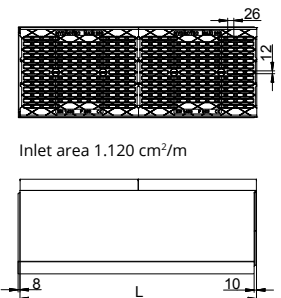
Class F 900

IRON EDGE PROTECTION AND GRATING

with damping insert					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	400	400	663600 502	205,5	6
Basic element 500 mm			663600 552	103,0	12
Vertical outlet* 1000 mm			663600 572	199,0	6
Feed box** 500 mm	750	750	663600 082	149,0	4

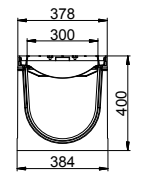


Basic element

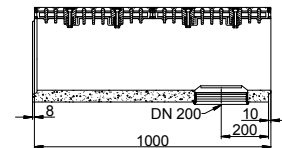


Inlet area 1.120 cm²/m

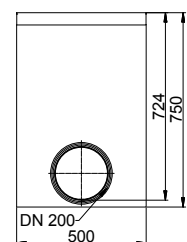
without damping insert					
Basic element 1000 mm	400	400	663600 501	205,5	6
Basic element 500 mm			663600 551	103,0	12
Vertical outlet* 1000 mm			663600 571	199,0	6
Feed box** 500 mm	750	750	663600 081	149,0	4



Vertical outlet



Feed box

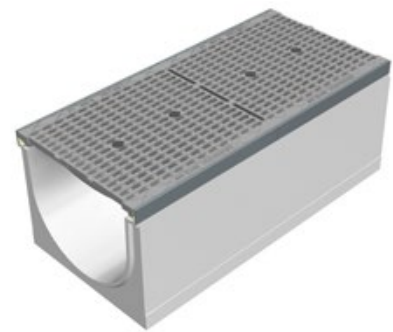


SYSTEM MAXI PRO 400

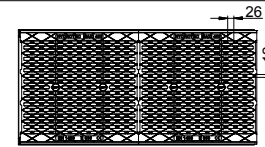
Class E 600

IRON EDGE PROTECTION AND GRATING

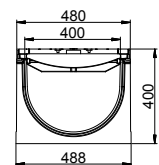
with damping insert					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	400	400	664500 502	252,0	4
Basic element 500 mm			664500 552	126,0	8
Vertical outlet* 1000 mm			664500 572	248,0	4
Feed box** 500 mm	750	750	664500 082	170,0	4



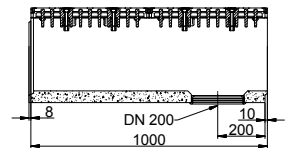
Basic element



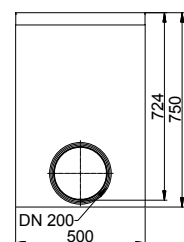
Inlet area 1.225 cm²/m



Vertical outlet



Feed box



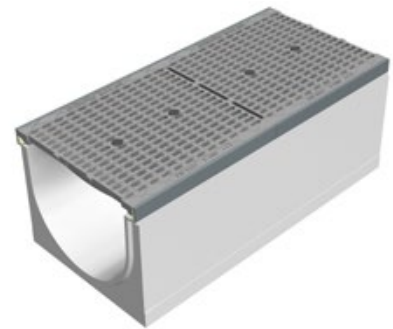
without damping insert					
Basic element 1000 mm	400	400	664500 501	252,0	4
Basic element 500 mm			664500 551	126,0	8
Vertical outlet* 1000 mm			664500 571	248,0	4
Feed box** 500 mm	750	750	664500 081	170,0	4

SYSTEM MAXI PRO 400

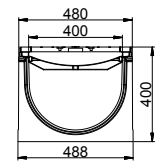
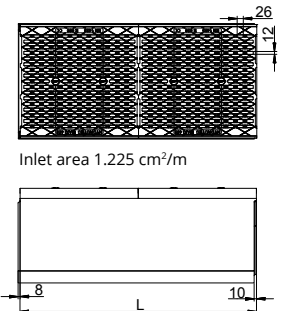
Class F 900

IRON EDGE PROTECTION AND GRATING

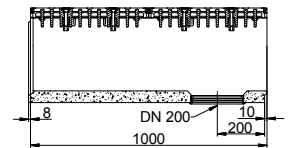
with damping insert					
Type	Height Inlet mm	Height Outlet mm	Art. no.	kg	Pallet
Basic element 1000 mm	400	400	664600 502	261,0	4
Basic element 500 mm			664600 552	130,5	8
Vertical outlet* 1000 mm			664600 572	257,0	4
Feed box** 500 mm	750	750	664600 082	180,0	4



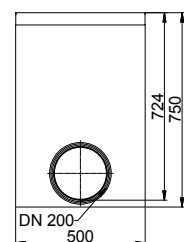
Basic element



Vertical outlet



Feed box



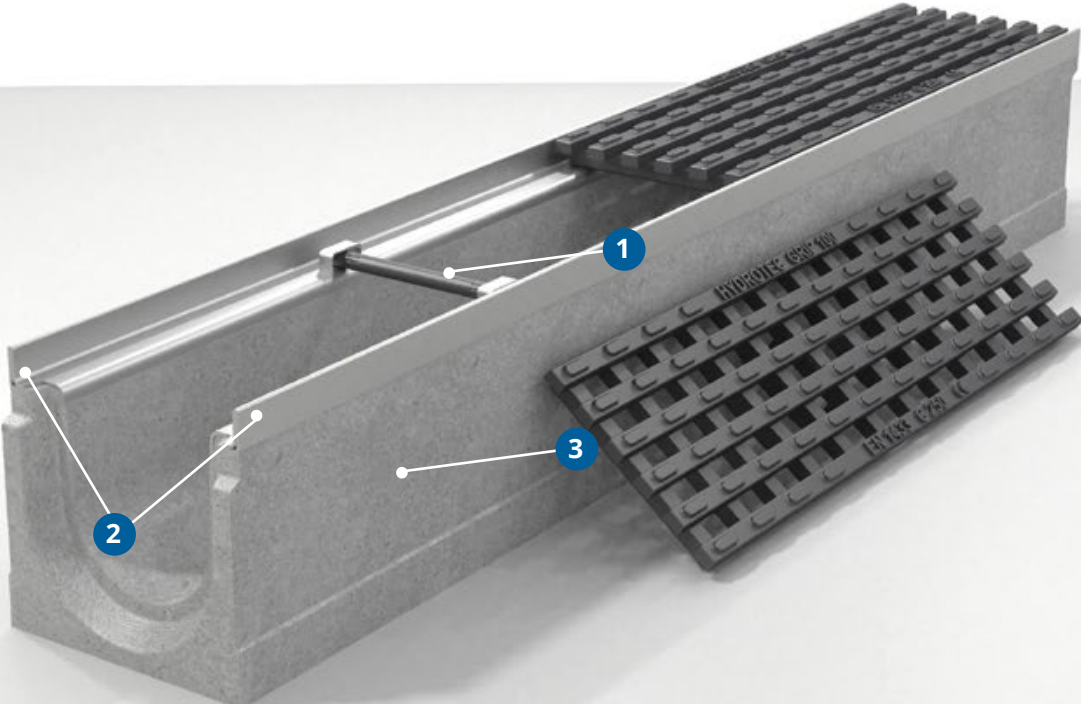
without damping insert					
Basic element 1000 mm	400	400	664600 501	261,0	4
Basic element 500 mm			664600 551	130,5	8
Vertical outlet* 1000 mm			664600 571	257,0	4
Feed box** 500 mm	750	750	664600 081	180,0	4

SYSTEM MAXI PRO



SYSTEM TOP

Product benefits



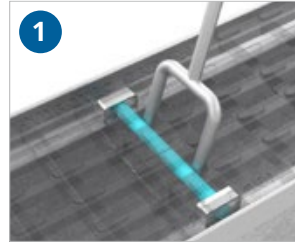
SYSTEM TOP

Product benefits



Test load 15 kN to 250 kN
EN 1433

Ideal for walkways, cycling paths,
green areas and car parking areas.



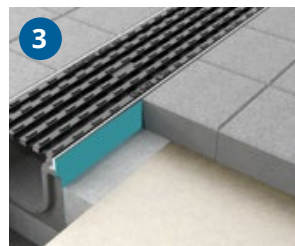
Screwless locking system

Easy opening and closing
with the installation bar
(accessories).



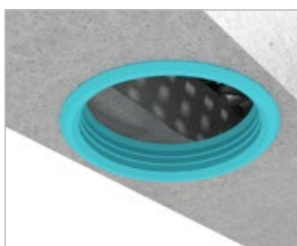
Edge protection

The hot-dip galvanised steel
($>60 \mu\text{m}$) edge protection
provides more stability.



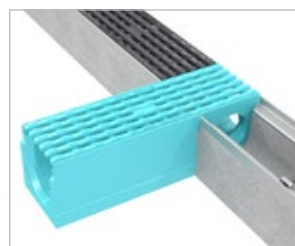
Optimal for paving

The straight external surfaces
guarantee an easy and smooth
installation.



Vertical outlet

Liquid-tight connection
for ground pipes.



Special element

The special element permits
extension of the channel run with
the required branches. It can also
be fitted as a corner or T-element.



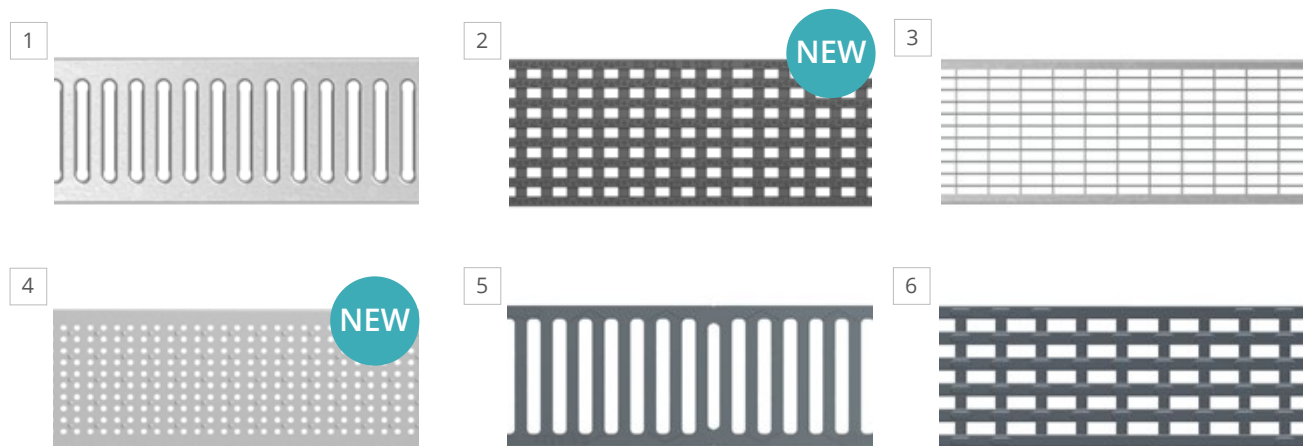
Gratings

Gratings are available in
different designs.

SYSTEM TOP 100

Class A 15 / C 250

GRATINGS 



Type	Class	Art. no.	Length mm	Inlet opening mm	Inlet area cm ² /m	kg	Pallet
1 Slotted grating (galvanised)	A 15	0314301	1000	10	359	2,1	96
		0314305	500			1,1	-
	C 250	0334301	1000	4,3		96	
		0334305	500	2,2		-	
2 Grating made of polyamide	B 125	0324222	500	14	360	0,9	-
3 Mesh grating (galvanised)	C 250	0334411	1000	10/30	900	4,4	96
		0334415	500			2,2	-
4 Perforated grating (galvanised)	A 15	0314601	1000	6	198	1,8	96
		0314605	500			1,3	-
	C 250	0334601	1000	3,9			
		0334605	500	1,9			
5 Iron slotted grating		0334201	500	14	564	3,8	144
6 Iron slotted grating		0334212	500	12	446	4,3	144

SYSTEM TOP 100

Class A 15 / C 250

CHANNEL BODY



Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	160	063101 000	30,0	24	
	185	063101 050	35,5		
	210	063101 100	41,5		
Basic element 500 mm	160	063101 005	15,0	48	
	185	063101 055	18,0		
	210	063101 105	19,0		
Vertical outlet* 1000 mm	160	063101 007	30,0	-	
	185	063101 057	35,5		
	210	063101 107	41,5		
Special element 500 mm	160	063101 006	14,0	-	
	185	063101 056	17,0		
	210	063101 106	18,0		

*with integrated sealing ring Ø100

**30 sloped channels available

Heights 235 and 260 mm on request

Optional: Vertical outlet 500 mm with sleeve or vertical outlet 1000 mm or 500 mm with lateral sleeve

SYSTEM TOP 100

Class A 15 / C 250

Type	Height mm	Art. no.	kg	Pallet	
Elements	H1/H2				
with slope 0,5 %*	160/165	063101022160	34,5	24	
1000 mm	165/170	063101022165	35,5		
	170/175	063101022170	36,0		
	175/180	063101022175	37,0		
	180/185	063101022180	37,5		
	185/190	063101022185	38,5		
	190/195	063101022190	39,0		
	195/200	063101022195	40,0		
	200/205	063101022200	40,5		
	205/210	063101022205	41,0		

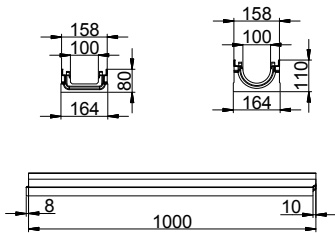
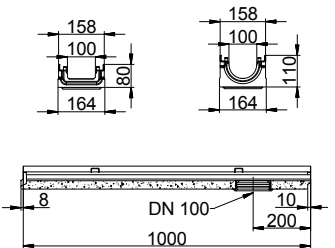


SYSTEM TOP 100

Class A 15 / C 250

CHANNEL BODY - FLAT



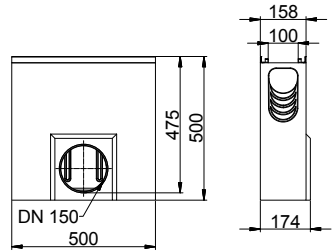
Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	80	06310100 0080	15,0	24	
	110	06310100 0110	28,0		
Basic element 500 mm	80	06310100 5080	7,5	48	
	110	06310100 50110	14,5		
Vertical outlet* 1000 mm	80	06310100 70080	15,0	-	
	110	06310100 70110	28,0		

SYSTEM TOP 100

Class A 15 / C 250

FEED BOX 



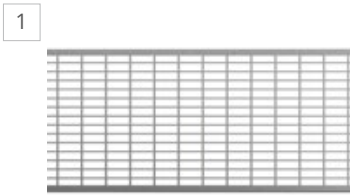
Type	Height mm	Art. no.	kg	Pallet	
Feed box** 500 mm	500	0631010 081	43,0	10	



SYSTEM TOP 150

Class C 250

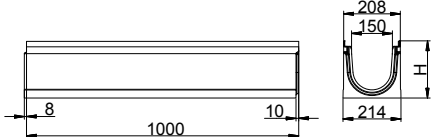
GRATINGS



Type	Class	Art. no.	Length mm	Inlet opening mm	Inlet area cm ² /m	kg	Pallet
1	C 250	0334451	1000	30/10	1350	7,2	80
		0334455	500			4,4	-
2		0334252	500	12	610	6,0	120

CHANNEL BODY



Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	210	063601 000	52,0	20	
	260	063601 050	58,0		
	310	063601 100	65,0	15	

SYSTEM TOP 150

Class C 250

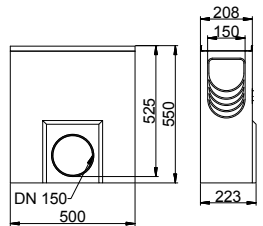
Type	Height mm	Art. no.	kg	Pallet	
Basic element 500 mm	210	063601 005	26,0	30	
	260	063601 055	29,0		
	310	063601 105	32,0		
Vertical outlet* 1000 mm	210	063601 007	52,0	-	
	260	063601 057	58,0		
	310	063601 107	65,0		
Special element 500 mm	210	063601 006	24,0	-	
	260	063601 056	27,0		
	310	063601 106	30,0		
Elements with slope 1 % 1000 mm	H1/H2				
	210/220	063601 011	49,2	20	
	220/230	063601 021	50,6		
	230/240	063601 031	51,6		
	240/250	063601 041	52,6		
	250/260	063601 051	54,1	15	
	260/270	063601 061	55,6		
	270/280	063601 071	57,1		
	280/290	063601 081	58,1		
	290/300	063601 091	59,1		
300/310	063601 101	60,6			

SYSTEM TOP 150

Class C 250

FEED BOX 



Type	Height mm	Art. no.	kg	Pallet	
Feed box** 500 mm	550	0636010081	52,0	8	

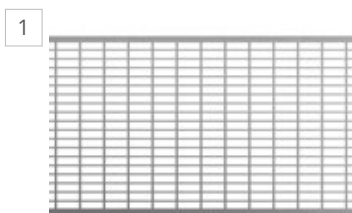


**with integrated sealing ring Ø150 and dirt catcher

SYSTEM TOP 200

Class C 250

GRATINGS



Type	Class	Art. no.	Length mm	Inlet opening mm	Inlet area cm ² /m	kg	Pallet
1	C 250	0334421	1000	30/10	1590	8,8	60
		0334425	500			4,0	
2		0334222	500	12	766	8,0	72

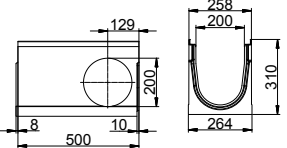
CHANNEL BODY



Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	310	064501 050	80,0	12	

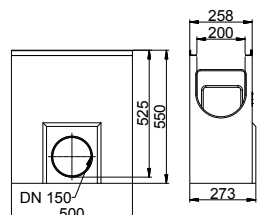
SYSTEM TOP 200

Class C 250

Type	Height mm	Art. no.	kg	Pallet	
Basic element 500 mm	310	064501 055	40,0	24	
Vertical outlet* 1000 mm	310	064501 057	80,0	-	
Special element 500 mm	310	064501 056	40,0	-	

FEED BOX



Type	Height mm	Art. no.	kg	Pallet	
Feed box** 500 mm	550	064501 0081	57	6	

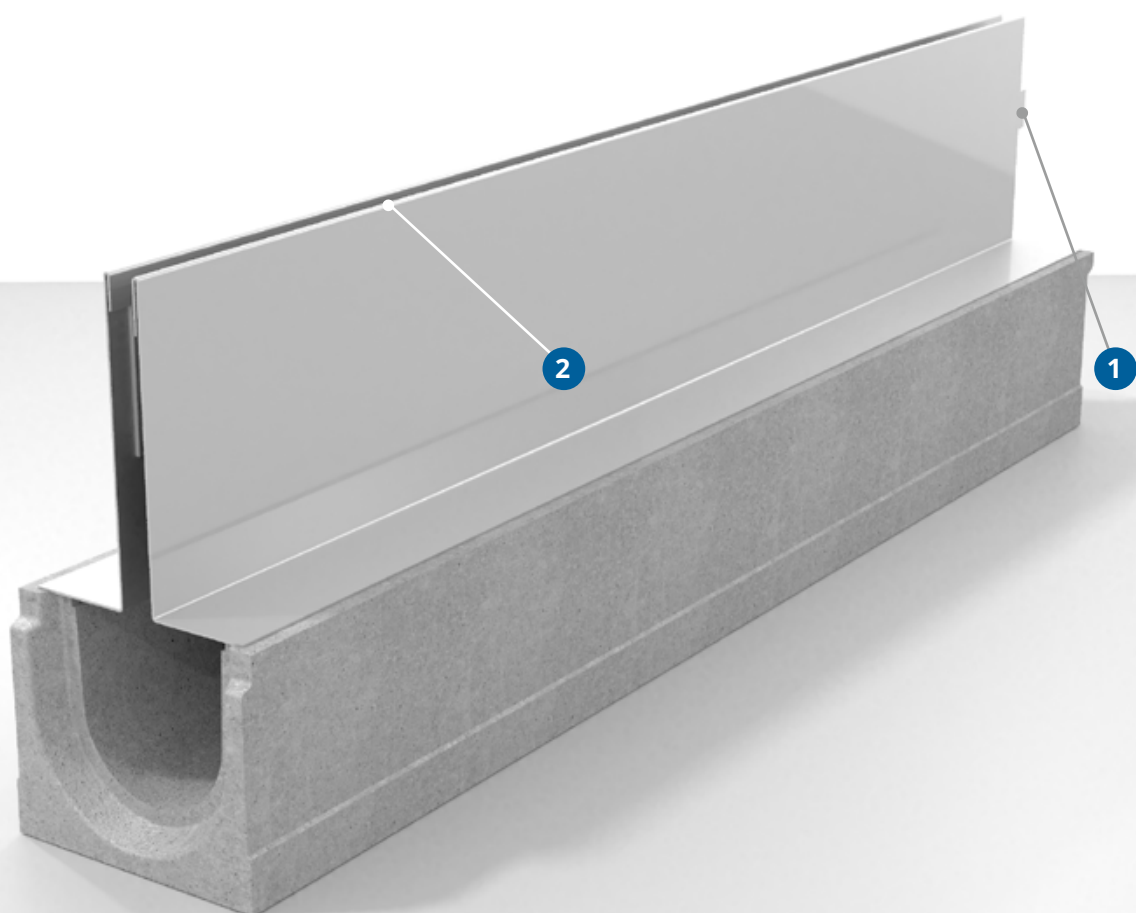
*with integrated sealing ring Ø150

**with integrated sealing ring Ø150 and dirt catcher

Optional: Vertical outlet 500 mm with sleeve or vertical outlet 1000 mm or 500 mm with lateral sleeve

SYSTEM SLOT CHANNEL

Product benefits



SYSTEM SLOT CHANNEL

Product benefits

CLASS
C 250 - D 400

Test load 250 kN to 400 kN

Ideal for walkways, cycling paths,
green areas and car parking areas.



Material

- steel galvanised
- stainless steel



Clear lines

Clear lines for architectural design.



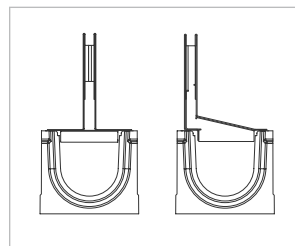
Guide taps

Easy and quick assembling.



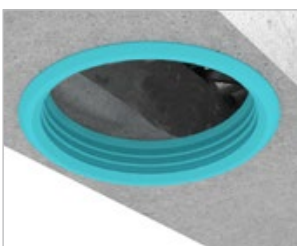
Stability

Stronger frame upper edge
for more stability.



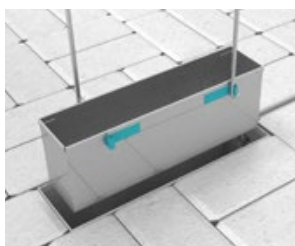
Slot channel element

- Centric
- Eccentric



Vertical outlet

Liquid-tight connection
for ground pipes.



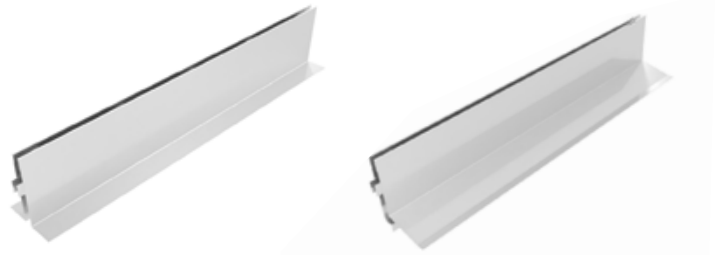
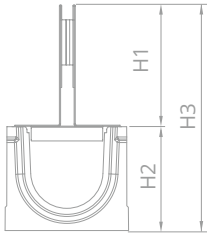
Entry for maintenance

The internal tray component can
be paved and directly removed for
maintenance access.

SYSTEM SLOT CHANNEL 100

Class A 15 - D 400

SLOT CHANNEL ELEMENT 



Type	Class	Art. no.	Height (H1) mm	kg	Pallet
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Centric

Steel galvanised	C 250	301151 80151	180	7,0	50	
Stainless steel		311151 80151				
	D 400	351401 80151				

Steel galvanised	C 250	301151 80155	180	3,5	-	
Stainless steel		311151 80155				
	D 400	351401 80155				

Eccentric

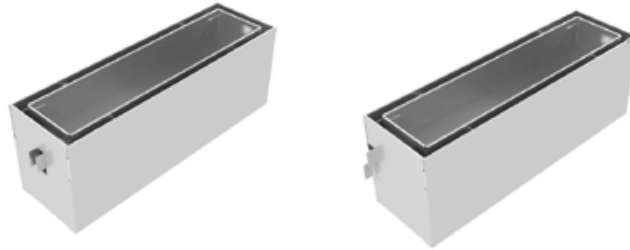
Steel galvanised	C 250	302151 80151	180	7,0	50	
Stainless steel		312151 80151				
	D 400	352401 80151				

Steel galvanised	C 250	302151 80155	180	3,5	-	
Stainless steel		312151 80155				
	D 400	352401 80155				

SYSTEM SLOT CHANNEL 100

Class A 15 - D 400

FEED BOX ELEMENT 

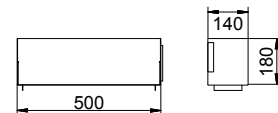


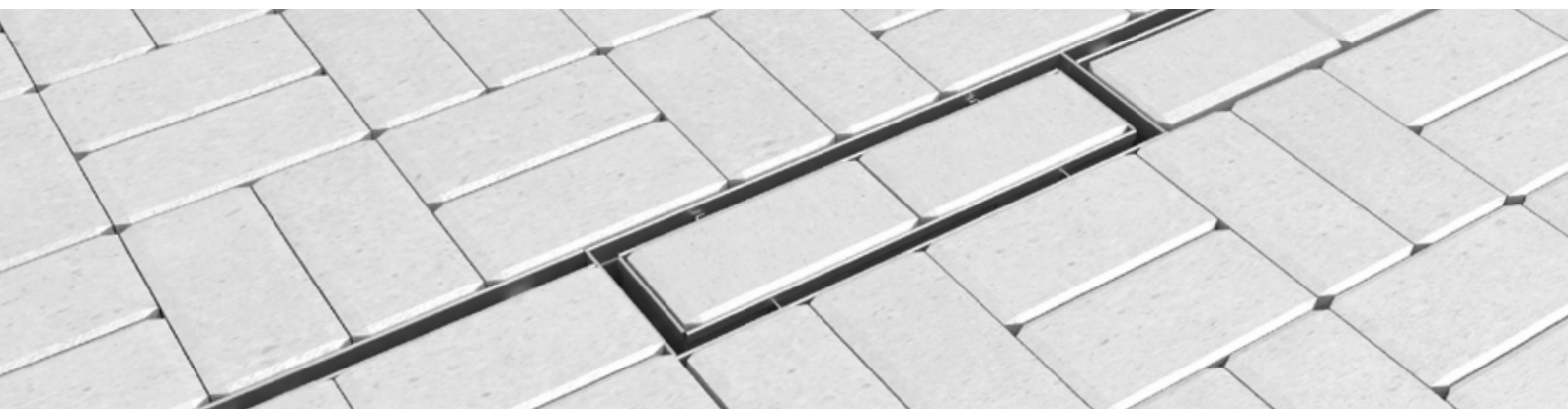
Type	Class	Art. no.	Height (H1) mm	kg	Pallet	
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Centric

Steel galvanised	C 250	301151 80158	180	5,0	10	
Stainless steel		311151 80158				
	D 400	351401 80158				

Eccentric

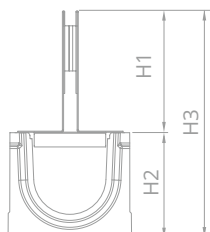
Steel galvanised	C 250	302151 80158	180	5,0	10	
Stainless steel		312151 80158				
	D 400	352401 80158				

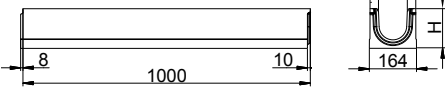
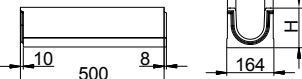
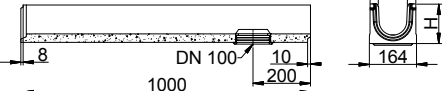
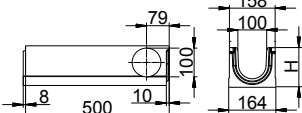


SYSTEM SLOT CHANNEL 100

Class A 15 - D 400

CHANNEL BODY 



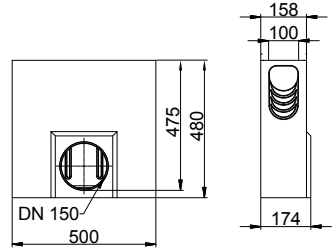
Type	Height (H2) mm	Art. no.	kg	Pallet	
Basic element 1000 mm	140	061102 000	27,4	36	
	165	061102 050	33,0	24	
	190	061102 100	39,0		
Basic element 500 mm	140	061102 005	14,0	48	
	165	061102 055	17,0		
	190	061102 105	18,0		
Vertical outlet* 1000 mm	140	061102 007	27,4	-	
	165	061102 057	33,0		
	190	061102 107	39,0		
Special element 500 mm	140	061102 006	13,0	-	
	165	061102 056	16,0		
	190	061102 106	17,0		

SYSTEM SLOT CHANNEL 100

Class A 15 - D 400

FEED BOX



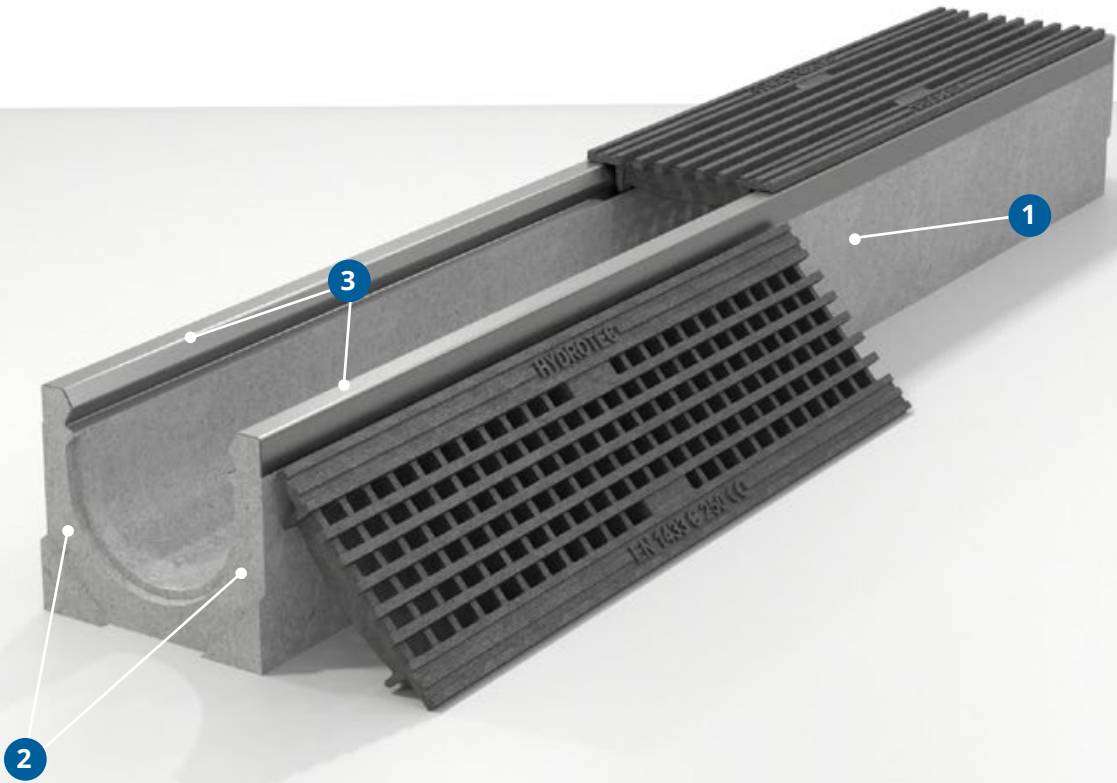
Type	Height (H2) mm	Art. no.	kg	Pallet	
Feed box** 500 mm	480	061102 008	42,0	10	



**with integrated sealing ring Ø150 and dirt catcher
Different heights, nominal sizes and load classes are available on request.

SYSTEM MINI

Product benefits



NEW

SYSTEM MINI

Product benefits

KLASSE
A 15 - C 250

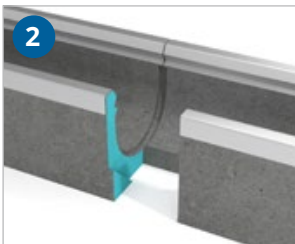
Test load 15 kN to 250 kN
EN 1433

Ideal for draining garages, terraces,
driveways and yard areas.



Optimal for paving

The straight external surfaces
guarantee an easy and smooth
installation.



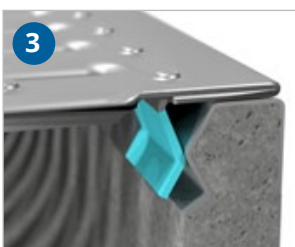
Fitting profile

The elements can easily be joined
together at the front sides by
means of a sensible profile.



Vertical outlet

Outlet for DN 100 pipes.



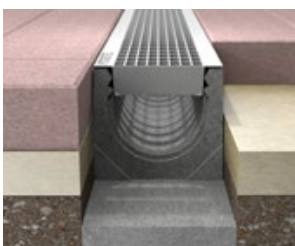
Click-Locking

The gratings can easily be locked
with a simple click mechanism on
the channel body.



Gratings

Gratings are available in
different designs.



TYPE I

The channel does not require a
concrete encasement and can be
asphalted or paved directly up
against. This offers architectural
freedom.

SYSTEM MINI 100

Class A 15 - C 250

GRATINGS



Type	Class	Art. no.	Length mm	Inlet opening mm	Inlet area cm ² /m	kg	Pallet
1	A 15	03153011	1000	10	280	2,5	192
		03153015	500			1,1	-
2	B 125	03253011	1000	30/10	848	3,2	192
		03253015	500			1,8	-
3	C 250	03353115	500	15/10	450	3,4	192

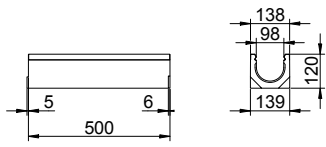
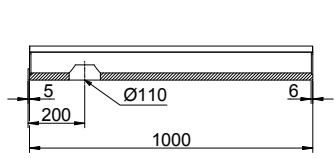
CHANNEL BODY



Type	Height mm	Art. no.	kg	Pallet	
Basic element 1000 mm	120	064103000	21,0	48	

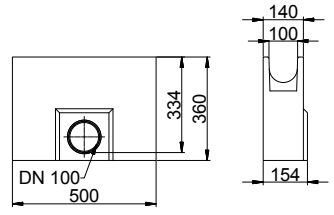
SYSTEM MINI 100

Class A 15 - C 250

Type	Height mm	Art. no.	kg	Pallet	
Basic element 500 mm	120	064103005	10,0	96	
Vertical outlet* 1000 mm	120	064103010	19,5	-	

FEED BOX



Type	Height mm	Art. no.	kg	Pallet	
Feed box** 500 mm	360	0641030081	27,5	10	

ACCESSORIES

Type	Art. no.	Height mm
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HYDROblock

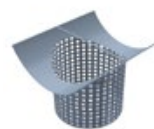
End piece DN 100, socket end	7001210	
End piece DN 100, spigot end	7001211	
End piece DN 150, socket end	7001215	
End piece DN 150, spigot end	7001216	
End piece DN 200, socket end	7001220	
End piece DN 200, spigot end	7001230	
End piece DN 300, socket end	7001232	
End piece DN 300, spigot end	7001231	
Installation aid NW 100	7009923	
Installation aid NW 150 / 200 / 300	7009920	
HYDROblock 300 Dirt strainer for vertical outlet	0301533	



End piece



End piece, spigot



Dirt strainer



Installation aid

HYDROline

End piece	7001700	
Mounting support	7001701	
Mounting support with pedestal	7001704	300
Connection piece	7001702	
Cleaning claw	7001730	



End piece



Mounting support



Mounting support
with pedestal



Connection piece



Cleaning claw

ACCESSORIES

Type	Art. no.	Height mm	
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HYDROline PRO

End piece	7003700	
Mounting support	7003701	
Mounting support with pedestal	7003704	300
Connection piece	7003702	
Cleaning claw	7003730	



End piece



Mounting support



Mounting support with pedestal



Connection piece



Cleaning claw

TOP / MAXI 100 / F1

End piece PP	7001130	160
End piece cast iron	7001111	160
End piece closed, 2 parts	7001110	185
End piece with pipe joint DN 100, 2 parts	7001120	160 - 260
End piece iron	7001112	185 - 260
End piece low profile PP	7001110080	80
End piece low profile PP	7001110110	110



End piece closed



End piece with pipe joint








End piece low profile


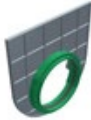

ACCESSORIES

Type	Art. no.	Height mm	
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TOP / MAXI 150 / 200 / F1

End piece PP (TOP/MAXI 150)	7001151				
End piece iron (TOP/MAXI 150)	7001152				
End piece PP (TOP/MAXI 200)	7001200				
End piece iron (TOP/MAXI 200)	7001250				
End piece iron - Pipe connection DN 100 (MAXI 150)	70011580	210			
End piece iron - Pipe connection DN 100 (MAXI 150)	70011585	260			
End piece iron - Pipe connection DN 100 (MAXI 150)	70011590	310			
End piece iron - Pipe connection DN 150 (MAXI 200)	7001280				

MAXI PRO 300 / 400

End piece cast iron (MAXI PRO 300)	7001311			
Upper part for socket key (multi-tooth)	7009908			
Upper part for socket key	7009909			
End piece cast iron - Pipe connection DN 200 (MAXI PRO 300)	7001380			
End piece iron (MAXI PRO 400)	7001400			
Upper part for socket key (MAXI PRO 400)	7009908			
End piece cast iron - Pipe connection DN 200 (MAXI PRO 400)	7001480			

MINI 100

End piece	7001600			
Pipe joint DN 100	7002100			

ACCESSORIES

Type	Art. no.
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Optional Accessory

Installation bar (TOP/MAXI)	7009 900
Installation bar (MAXI mesh grating)	7009 903
Cleaning shovel	7009 950
PVC DN 100	7002 100
PVC DN 150	7002 150
PVC DN 200	7002 200
Foul air stop DN 100	7003 100
Foul air stop DN 150	7003 150
KG 2000 DN 110 / Pipe connection DN 100	7002 251
KG 2000 DN 160 / Pipe connection DN 150	7002 252
KG 2000 DN 200 / Pipe connection DN 200	7002 253



Installation bar



Cleaning shovel



PVC



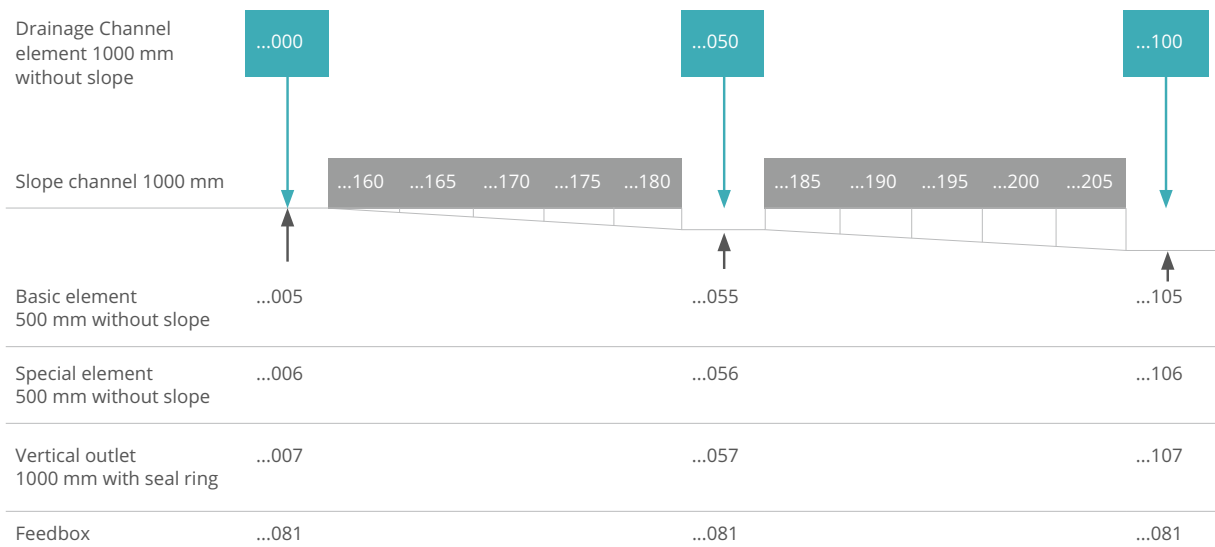
Foul air stop



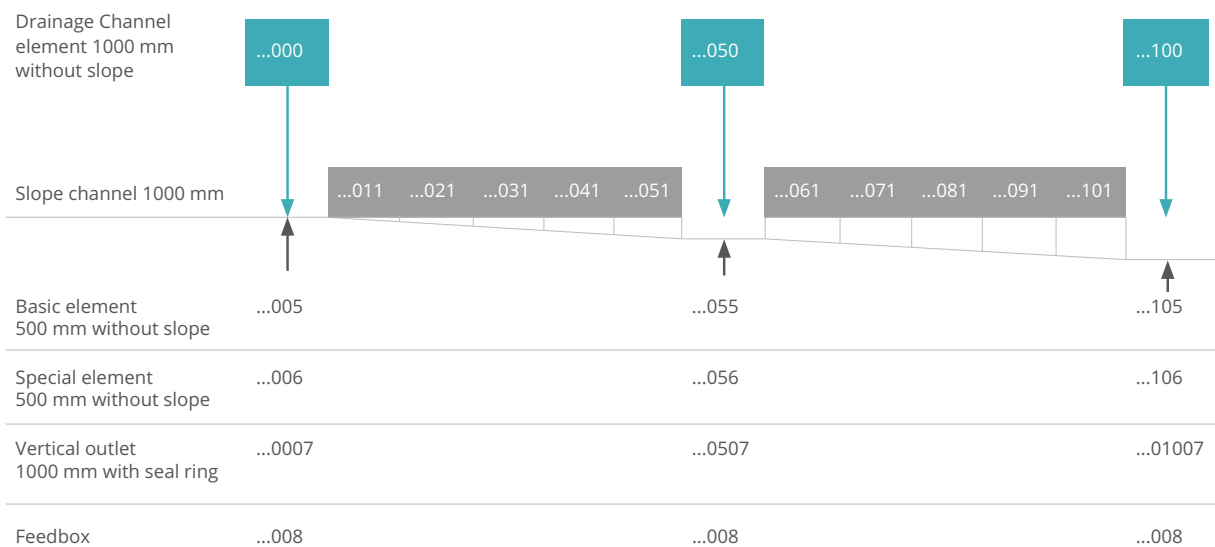
KG 2000

MODULAR SYSTEM

TOP 100



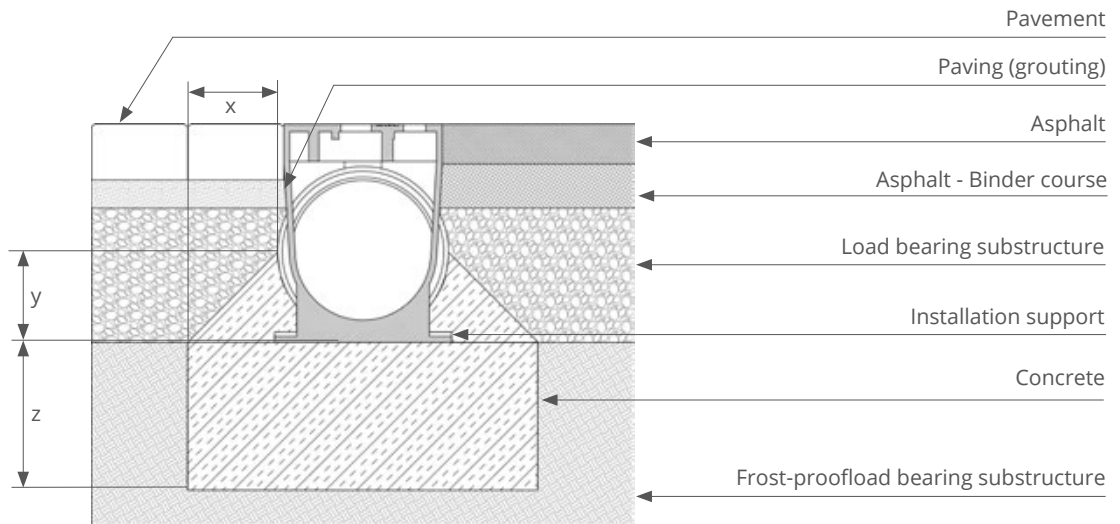
MAXI 100



INSTALLATION INSTRUCTIONS

HYDROblock® / HYDROline

F 900 HYDROblock®, ASPHALT / PAVEMENT



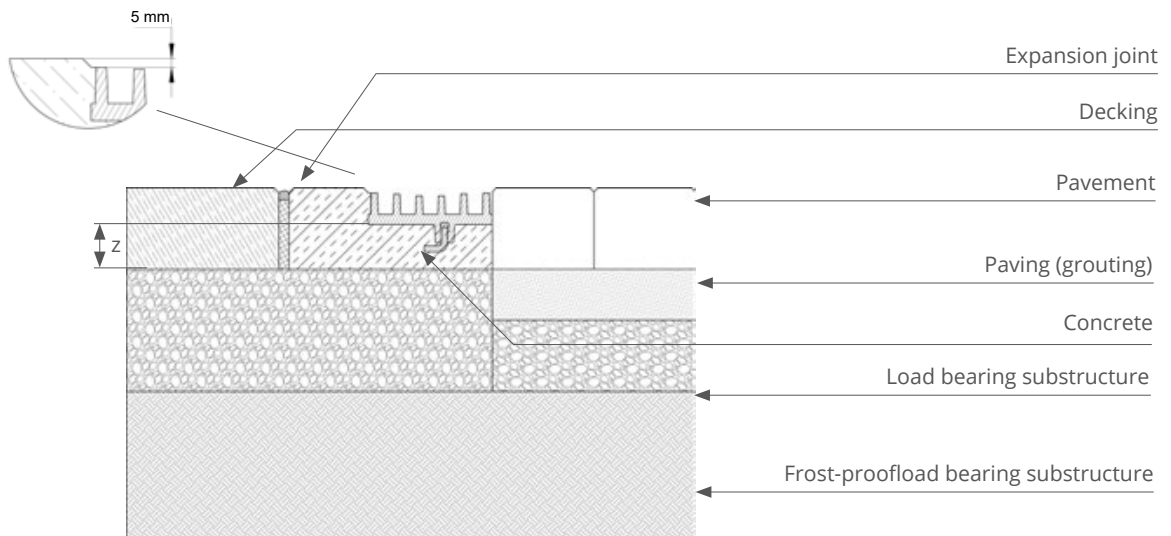
z (according to calculation)

D 400	20 cm concrete C25/30
E 600 / F 900	25 cm concrete C25/30

x y (according to calculation)

D 400	15 cm concrete C25/30
E 600 / F 900	20 cm concrete C25/30

F 900 HYDROline, ROADWAY CONCRETE / PAVEMENT



The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

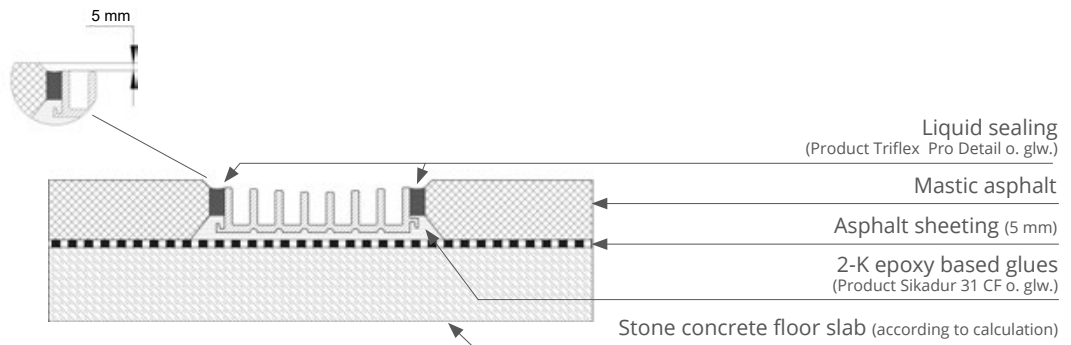
z (according to calculation)

C 250	15 cm concrete C25/30
D 400	20 cm concrete C25/30
E 600 / F 900	25 cm concrete C25/30

INSTALLATION INSTRUCTIONS

HYDROline PRO / MAXI

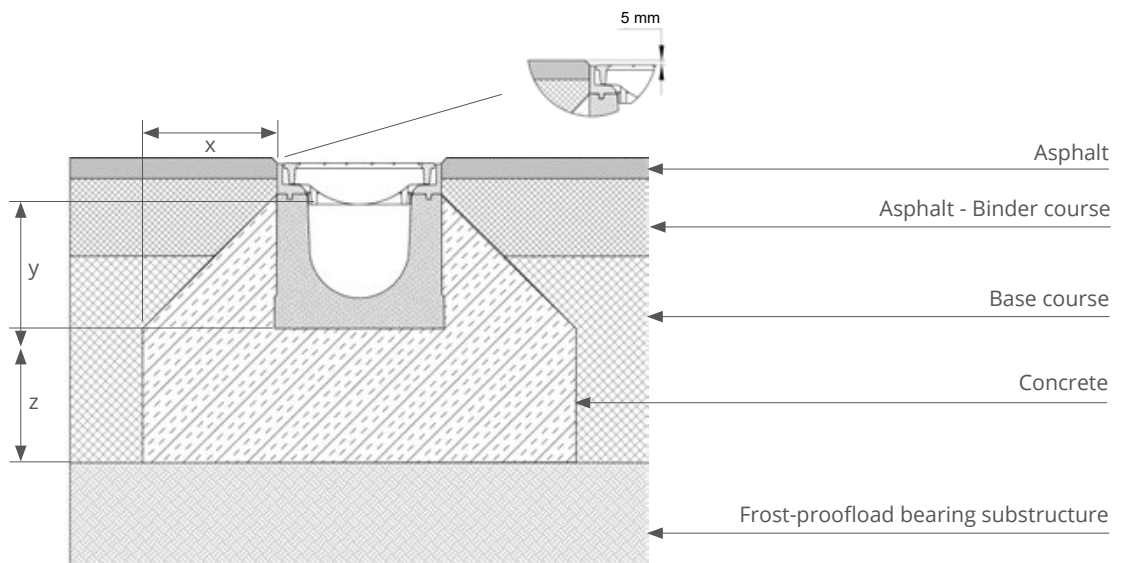
F 900 HYDROline PRO, MASTIC ASPHALT



The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

Concrete according to calculation of the respective load class.

A 15 - F 900 MAXI, ASPHALT



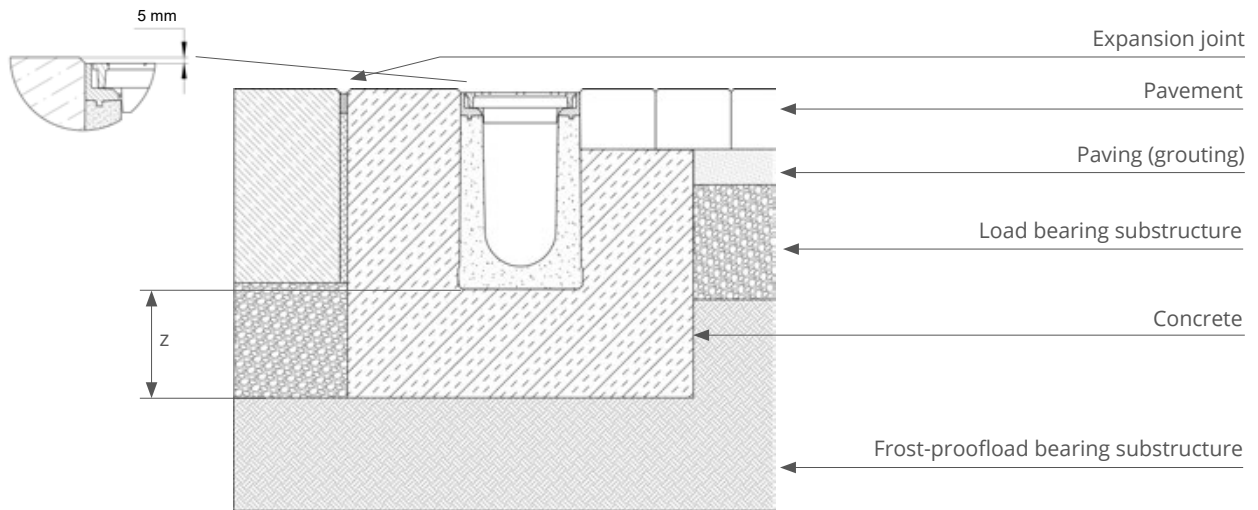
The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

x y z (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30
D 400*	20 cm concrete C25/30
E 600* / F 900*	25 cm concrete C25/30

INSTALLATION INSTRUCTIONS MAXI

A 15 - F 900 MAXI, ROADWAY CONCRETE / PAVEMENT



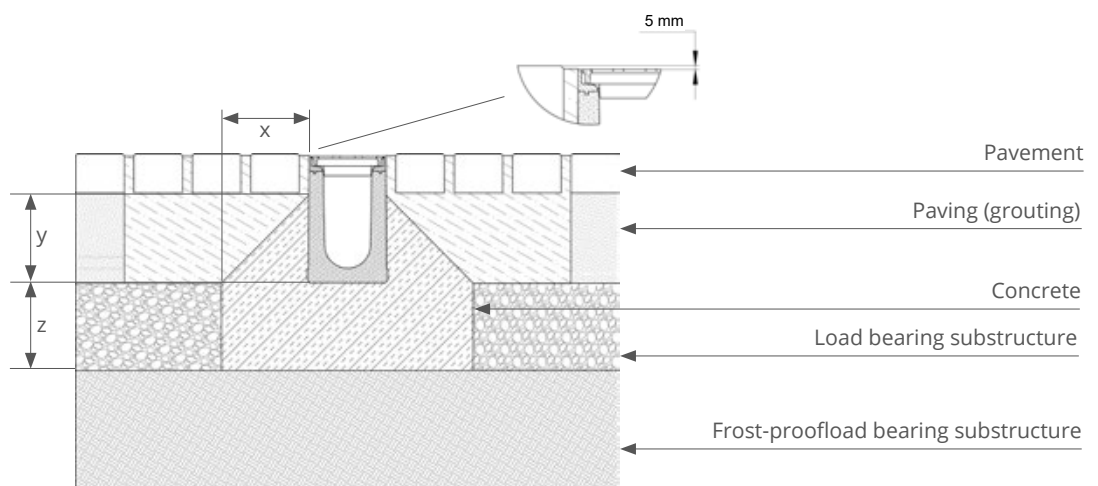
The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

The paving must be installed in such a way that dynamic shearing forces do not affect the channel sides. This is achieved by a non-positive bond of the paving.

z (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30
D 400*	20 cm concrete C25/30
E 600* / F 900*	25 cm concrete C25/30

D 400 - E 600 MAXI, PAVEMENT



The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

The paving must be installed in such a way that dynamic shearing forces do not affect the channel sides. This is achieved by a non-positive bond of the paving.

x y z (according to calculation)

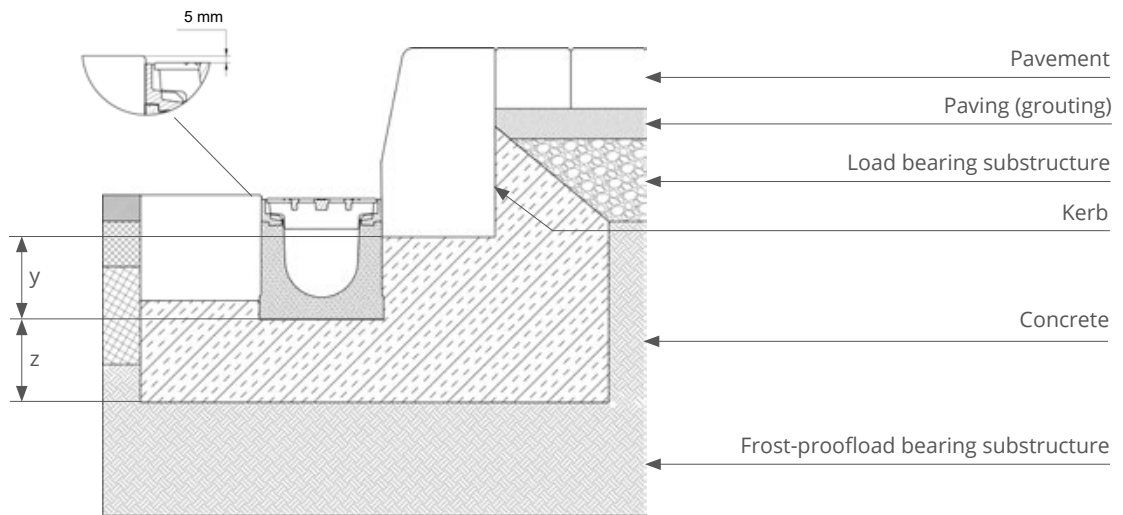
D 400	20 cm concrete C25/30
E 600 / F 900	25 cm concrete C25/30

*Not suitable for cross drainage on high-frequency ranges!

INSTALLATION INSTRUCTIONS

MAXI / TOP / Slot channel

A 15 - C 250 MAXI / TOP, ASPHALT / STRETCHER / KERB

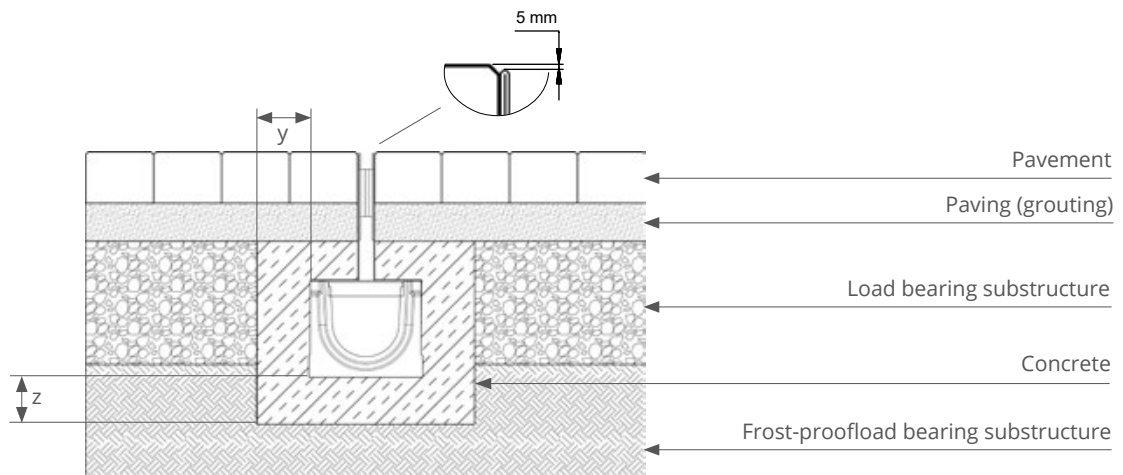


The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

y z (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30

C 250 - D 400 SLOT CHANNEL / CENTRIC / PAVEMENT



The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

The paving must be installed in such a way that dynamic shearing forces do not affect the channel sides. This is achieved by a non-positive bond of the paving.

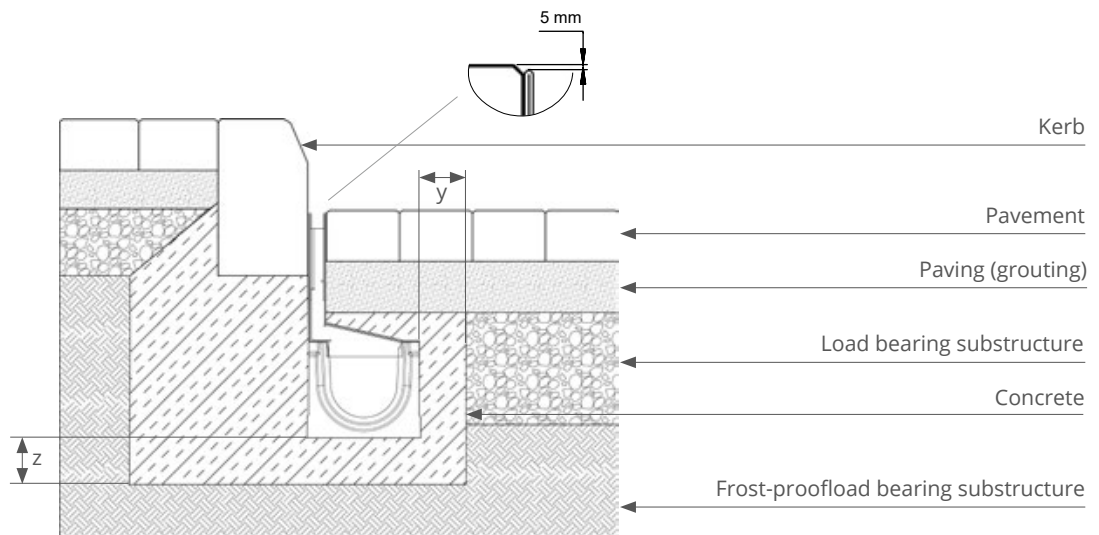
z (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30
D 400	20 cm concrete C25/30

INSTALLATION INSTRUCTIONS

Slot channel / MINI

C 250 - D 400 SLOT CHANNEL / ECCENTRIC / PAVEMENT



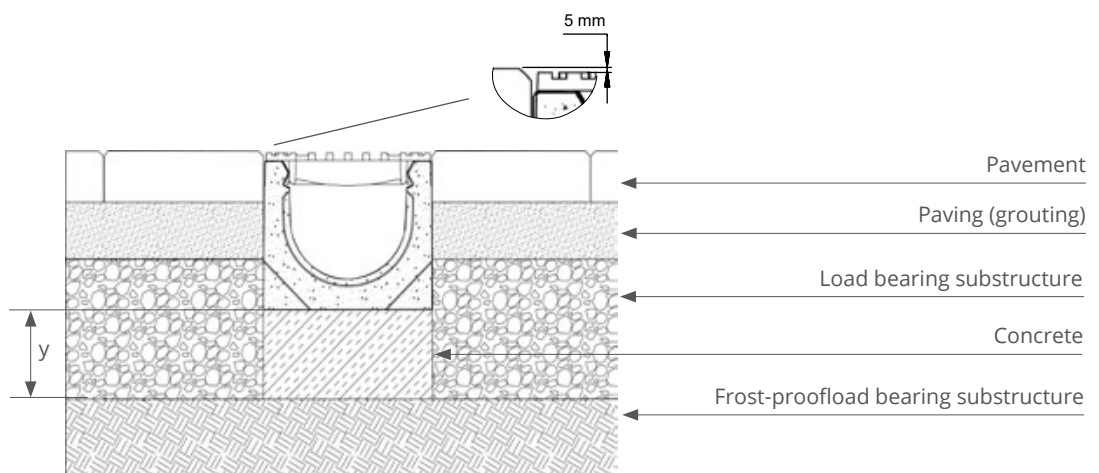
The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

The paving must be installed in such a way that dynamic shearing forces do not affect the channel sides. This is achieved by a non-positive bond of the paving.

x y z (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30
D 400	20 cm concrete C25/30

A 15 - C 250 MINI, PAVEMENT



The edge protector in the drainage channel must be permanently seated approx. 5 mm lower than the adjoining surface.

The paving must be installed in such a way that dynamic shearing forces do not affect the channel sides. This is achieved by a non-positive bond of the paving.

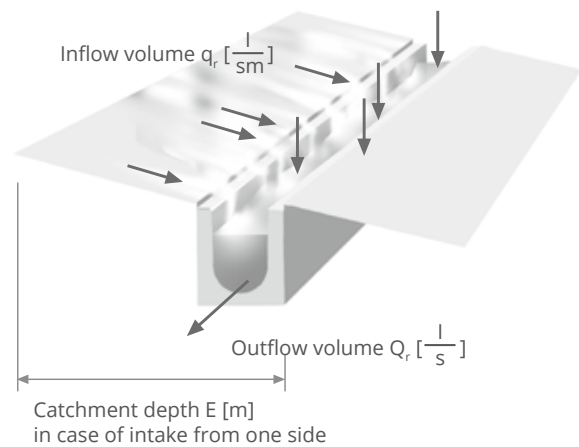
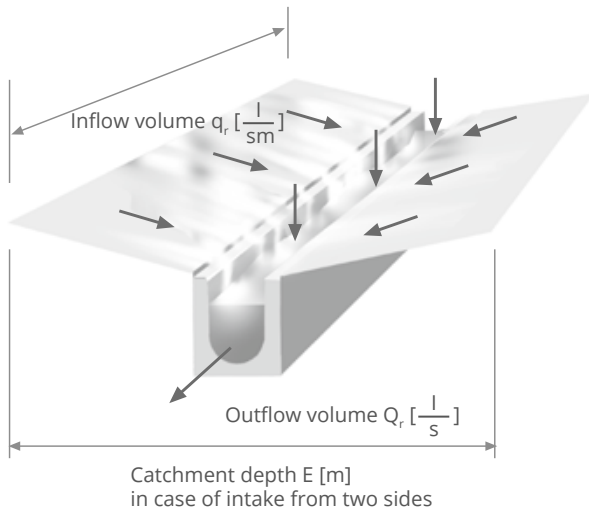
y (according to calculation)

A 15	10 cm concrete C25/30
B 125 / C 250	15 cm concrete C25/30

HYDRAULIC CALCULATION

CATCHMENT DEPTH

Channel run length $L[m]$

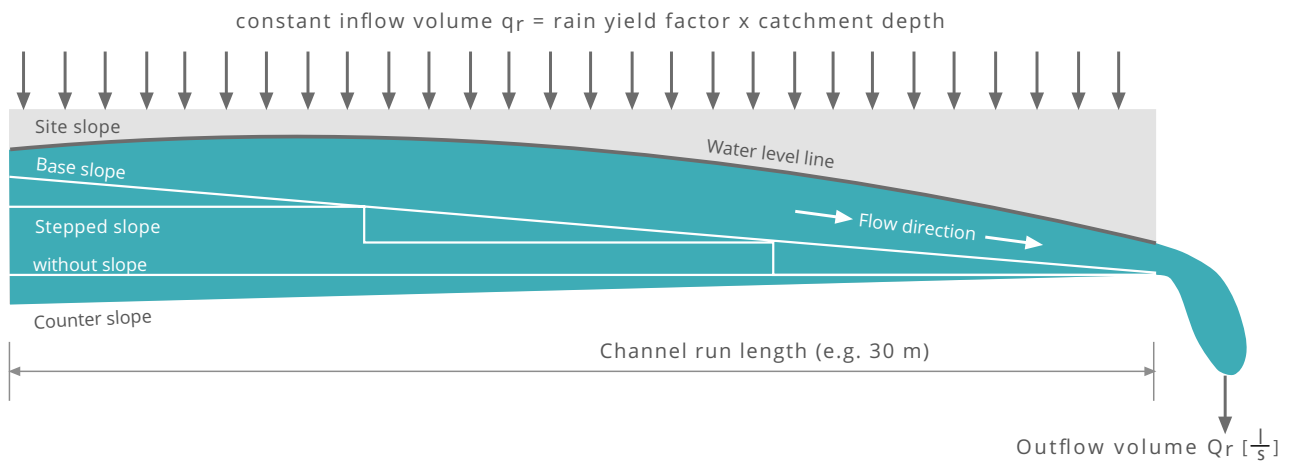


OUTFLOW VOLUME / WATER LEVEL / BASE FORMATION

The shape of the channel base with or without slope has no effect on the outflow volume of the channel run. The water level remains constant. The outflow volume is determined

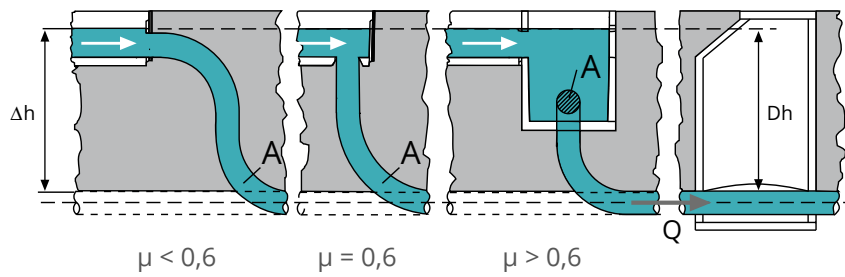
only by the inner channel diameter at the end of the run, the slope has no impact at all.

Result: less effort without slope.



HYDRAULIC CALCULATION

OUTFLOW VOLUME "Q" OF GROUNDPipe



Sewer		Outflow volume Q [l/s]			
DN	A [dm ²]	0,35	1,00	2,00	Dh [m]
		0,6	0,6	0,6	μ
100	0,85	13,4	22,6	32,0	
150	1,82	28,6	48,4	68,5	
200	2,87	45,1	76,3	108,0	

$$Q = \mu \cdot A \cdot \sqrt{(2g \cdot \Delta h)}$$

HYDRAULIC CALCULATION

CALCULATING THE MAXIMUM CHANNEL RUN

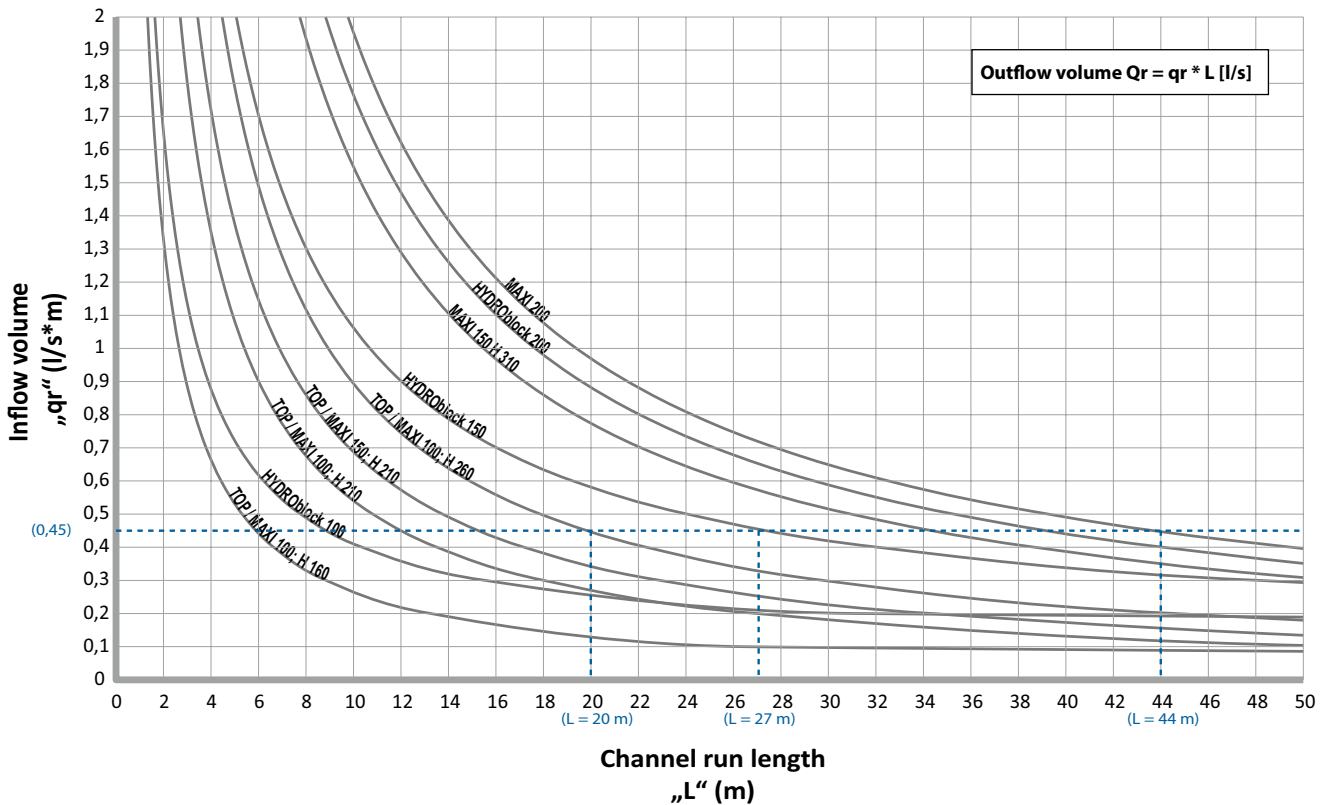
Example:

The aim is to determine the maximum length L of a channel run. The catchment depth E is 30m. The rain yield factor is given as 150.

Solution in line with Table 1:
The inflow volume is $qr = 0.45$

A length of $L = 20$ m can be read off in the diagram for the MAXI 100. If the length of the MAXI 100 channel exceeds 20 m, it will be unable to drain off the intake of water. In this case you should select a greater effective height or nominal width. The length is $L = 27$ m for MAXI 150 and $L = 44$ m for MAXI 200.

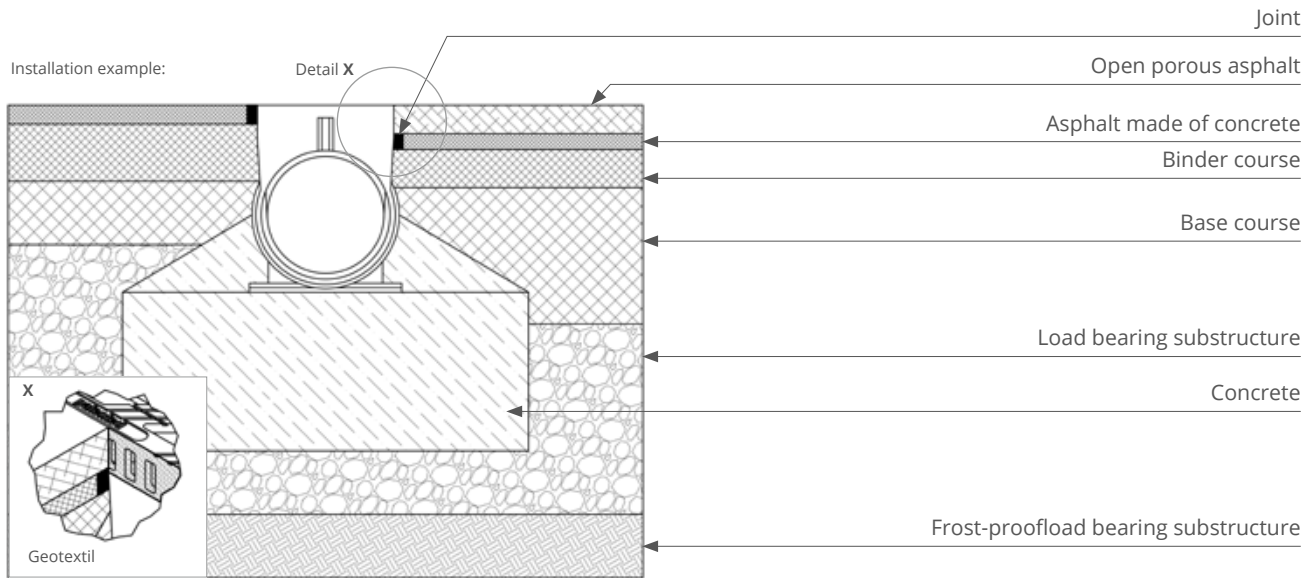
Inflow volume $qr = \left[\frac{l}{s \cdot m} \right]$ depending on rain yield factor and catchment depth	Catchment depth E [m]					
	10	15	20	30	40	50
100	0,10	0,15	0,20	0,30	0,40	0,50
150	0,15	0,23	0,30	0,45	0,60	0,75
200	0,20	0,30	0,40	0,60	0,80	1,00
300	0,30	0,45	0,60	0,90	1,20	1,50



HYDRAULIC CALCULATOR - WWW.HYDROTEC.COM/RINNENBEMESSUNG

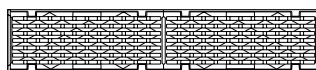
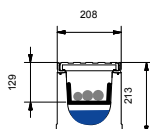
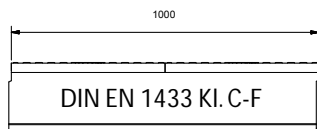
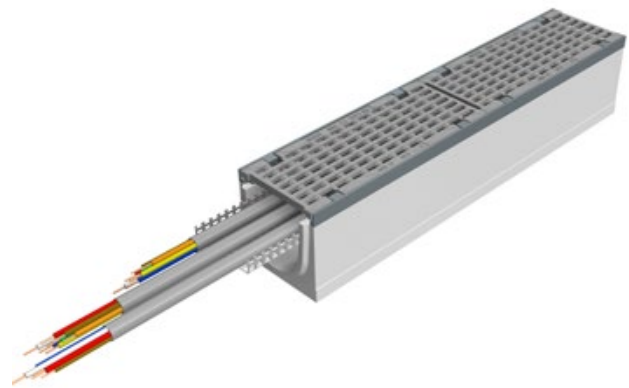
SPECIAL APPLICATION

HYDROblock® DRAIN FOR OPEN POROUS ASPHALT



CABLE DUCT SYSTEM MAXI 150

- with internal separator
- avoids tripping hazards
- during events
- Load class C 250 – F 900
- Screwless, patented grating
- locking system
- Firmly anchored ductile cast iron edge protection
- Channel base made of fiber-reinforced concrete C35/45






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