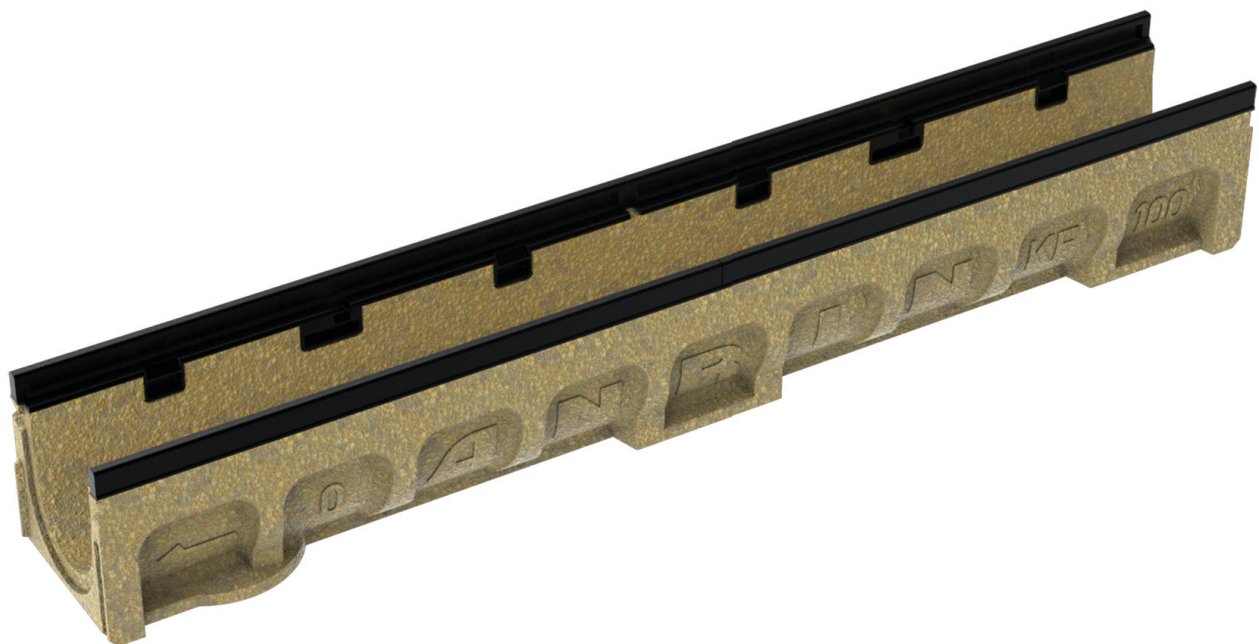


ANRIN

LEADING WATER



Technical data sheet

Reinforced edge channels
KF-100

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Channel drainage for the load classes A 15 to F 900

According to DIN 19580 / EN 1433 "Drainage channels for vehicular and pedestrian areas", these surfaces are as-signed to specific load classes depending on the use. Accordingly, the respective suitable ANRIN reinforced edge system can be selected with the corresponding cover grating.

Product specifications

Product specifications	
Material	Resin concrete
Length	50 cm and 100 cm
Width	14.4 cm
Height	10.0 cm, 15.0 – 25.0 cm
Edge type	Black cast iron edge rail, KTL-coated , 8 mm edge width
Nominal width	100 mm
Load class	A 15 - F 900 according DIN 19580 / EN 1433 (D400 and E600 Exception: Cross-road drainage of busy roads)
Slope type	Sloping invert 0,5% or Stepped invert or Constant invert
Joint type	UNILINK®-joint
Fastening	TwistLock fastening / RapidLock fastening

General type approval: For use in facilities of the storage, filling and handling of water polluting substances. Approval no. Z-74.4-30
Exception: Channel with moulded-in Venturi Socket

Material properties

Channel / component body	
Polymer concrete	polyester resin-based with mineral aggregates, additives
Compressive strength	$\geq 90 \text{ N/mm}^2$
Bending tensile strength	$\geq 22 \text{ N/mm}^2$
Modulus of elasticity	ca. 25 kN/mm^2
Density	$2.1 - 2.3 \text{ g/dm}^3$
Heat resistance	100° C (permanent loading)
Frost resistance	- 50° C
Water penetration depth	0 mm
Water absorption:	0,05 %
Edge protection	
Edge protection	black KTL-coated edge rail, profile thickness 8 mm
Channel cover	
Channel cover	Galvanised steel, GJS cast-iron, PA plastic

Technical data sheet

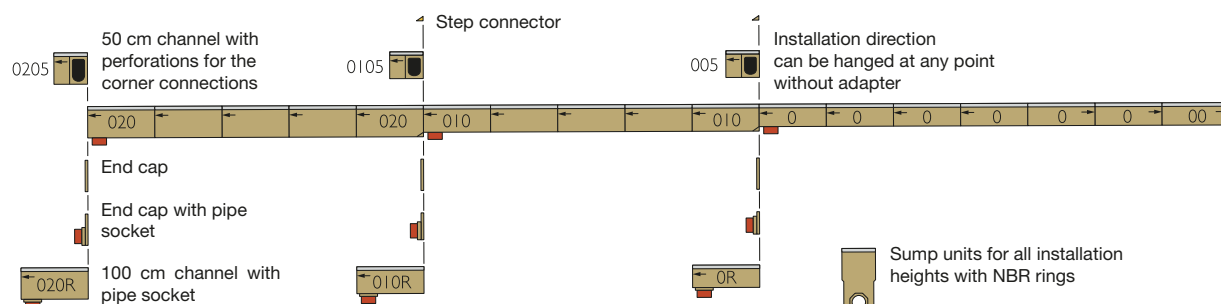
ANRIN DRAIN Reinforced edge channels

Slope types

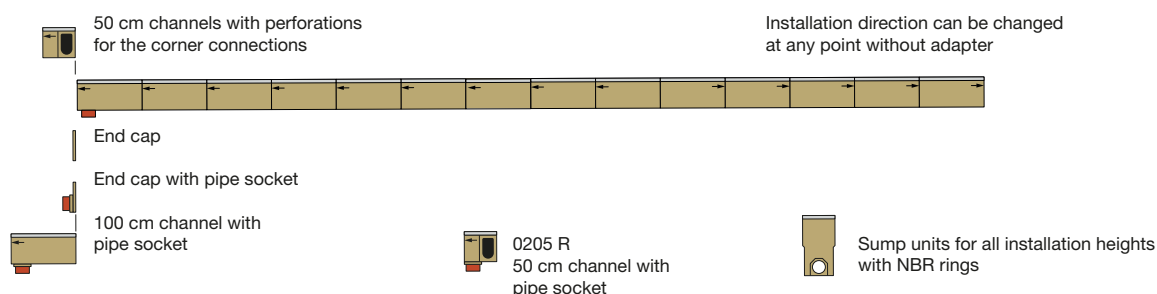
Area drainage with channel runs is normally made according to 3 different principles. The slope of water surface is achieved by the natural fall of the land. The water flows downwards with the gradient of the water level. A stepped invert is realised by an artificial gradient which is formed by the installation of stepped-height channels and connectors. The high flow rate with self-cleaning effect can be achieved with channels in natural slope.

All slope types can be combined according to hydraulic requirements and topographical conditions.

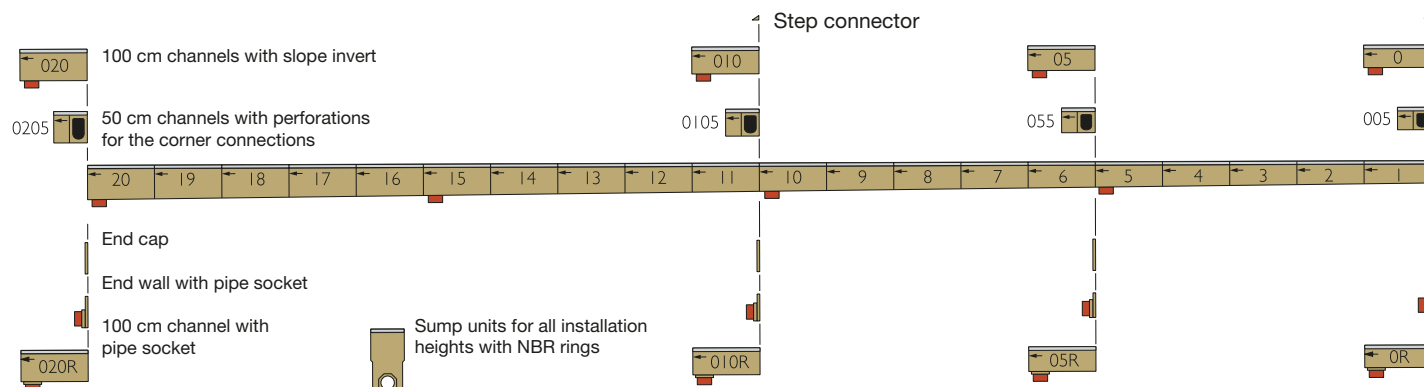
Stepped invert



Constant invert



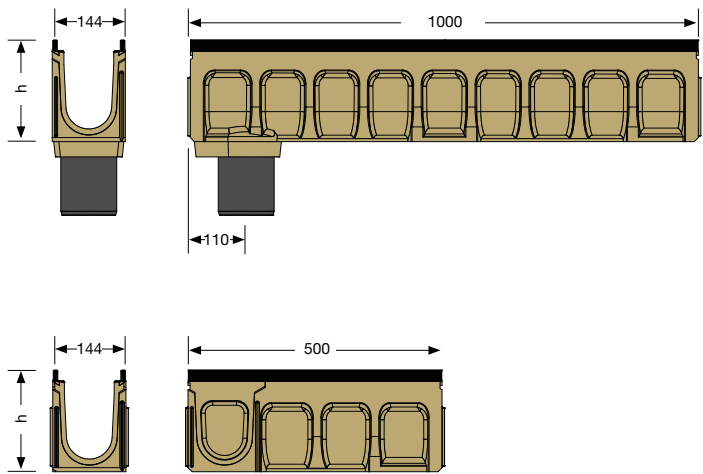
Slope invert



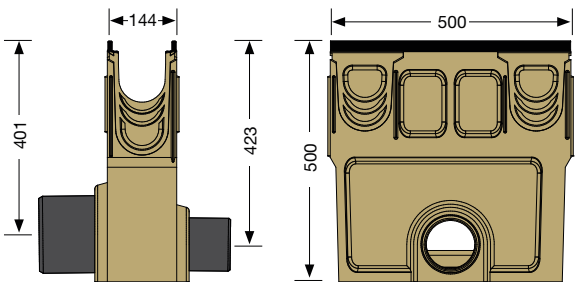
Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Channel dimensions



Accessories dimensions



Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Channel types – KF-100 with black cast iron edge rail GJS

Article no.	EAN	Designation		Slope %	Length cm	Width cm	Height cm	Weight kg
01600000	4026857027478	KF-100 Channel No.	0*	0	100	14.4	15.0	19.4
01600410	4026857027485	KF-100 Channel No.	0R***	0	100	14.4	15.0	19.6
01600430	4026857035763	KF-100 Channel No.	0RV****	0	100	14.4	15.0	19.6
01600450	4026857027492	KF-100 Channel No.	005**/*	0	50	14.4	15.0	10.5
01600010	4026857027508	KF-100 Channel No.	1	0.5	100	14.4	15.5	19.7
01600020	4026857027515	KF-100 Channel No.	2	0.5	100	14.4	16.0	20.0
01600030	4026857027522	KF-100 Channel No.	3	0.5	100	14.4	16.5	20.3
01600040	4026857027539	KF-100 Channel No.	4	0.5	100	14.4	17.0	20.6
01600050	4026857027546	KF-100 Channel No.	5*	0.5	100	14.4	17.5	20.9
01600060	4026857027553	KF-100 Channel No.	6	0.5	100	14.4	18.0	21.2
01600070	4026857027560	KF-100 Channel No.	7	0.5	100	14.4	18.5	21.5
01600080	4026857027577	KF-100 Channel No.	8	0.5	100	14.4	19.0	21.8
01600090	4026857027584	KF-100 Channel No.	9	0.5	100	14.4	19.5	22.1
01600100	4026857027591	KF-100 Channel No.	10*	0.5	100	14.4	20.0	22.4
01601000	4026857027607	KF-100 Channel No.	010*	0	100	14.4	20.0	22.2
01601010	4026857027614	KF-100 Channel No.	010R***	0	100	14.4	20.0	23.0
01601030	4026857035770	KF-100 Channel No.	010RV****	0	100	14.4	20.0	23.0
01601050	4026857027621	KF-100 Channel No.	0105**/*	0	50	14.4	20.0	12.4
01600110	4026857035664	KF-100 Channel No.	11	0.5	100	14.4	20.5	22.9
01600120	4026857035671	KF-100 Channel No.	12	0.5	100	14.4	21.0	23.2
01600130	4026857035688	KF-100 Channel No.	13	0.5	100	14.4	21.5	23.6
01600140	4026857035695	KF-100 Channel No.	14	0.5	100	14.4	22.0	23.9
01600150	4026857035701	KF-100 Channel No.	15*	0.5	100	14.4	22.5	24.3
01600160	4026857035718	KF-100 Channel No.	16	0.5	100	14.4	23.0	24.6
01600170	4026857035725	KF-100 Channel No.	17	0.5	100	14.4	23.5	24.9
01600180	4026857035732	KF-100 Channel No.	18	0.5	100	14.4	24.0	25.3
01600190	4026857035749	KF-100 Channel No.	91	0.5	100	14.4	24.5	25.6
01600200	4026857035756	KF-100 Channel No.	20*	0.5	100	14.4	25.0	26.0
01602000	4026857027638	KF-100 Rinne Nr.	020*	0	100	14,4	25,0	21,5
01602010	4026857027645	KF-100 Rinne Nr.	020R***	0	100	14,4	25,0	21,7
01602030	4026857035787	KF-100 Rinne Nr.	020RV****	0	100	14,4	25,0	21,7
01602050	4026857027652	KF-100 Rinne Nr.	0205**/*	0	50	14,4	25,0	14,4
01603000	4026857027690	KF-100 Channel No.	0100*	0	100	14.4	10.0	16.8
01603010	4026857027676	KF-100 Channel No.	0100R***	0	100	14.4	10.0	17.0

* Channel with mouldings for vertical outlet DA/OD 160

** Channel with sidewise perforations for the connection of t-junctions, elbow joints and cross- over joints and vertical outlet

*** Channel with moulded-in Venturi Socket

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Accessories – KF-100 with black cast iron edge rail GJS

Article no.	EAN	Designation		Length cm	Width cm	Height cm	Weight kg
01606000	4026857027706	KF-100 Sump unit		50	14.4	50	36.0
01006800	4026857000549	Pipe socket DA/OD 110					0.2
01006810	4026857000556	Pipe socket DN 150					0.6
01607000	4026857027713	KF-100 Closed end cap for channel No.	0-0205				1.6
01607900	4026857027744	KF-100 Closed end cap for channel No.	0100				1.2
01608000	4026857027751	KF-100 end cap with pipe socket DA/OD 110 for No.	0				1.0
01608100	4026857027768	KF-100 end cap with pipe socket DA/OD 110 for No.	10, 010				1.2
01608200	4026857027775	KF-100 end cap with pipe socket DA/OD 110 for No.	20, 020				1.4
01608900	4026857027799	KF-100 end cap with pipe socket DA/OD 50 for No.	0100				0.4
01607500	4026857027805	KF-100 Step connector for compensating level differences					0.5

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Cover gratings – KF-100



Mesh grating, galvanised, stainless steel
Load classes: **B125, C250, D400**, Length: 50 cm, 100 cm
MW 30 x 14 mm / 30 x 10 mm / 20 x 14 mm



Slotted grating, OvalGrip Design, polyamide, gray
Load class: **B125**, Length: 50 cm, SW 8 mm



Slotted grating, OvalGrip Design, polyamide, black
Load class: **C250**, Length: 50 cm, SW 8 mm



Slotted grating SW 10,
ductile-iron, cataphoretic dip coating
Load class: **C250**, Length: 50 cm, SW 10 mm



Slotted grating, OvalGrip Design,
ductile-iron, cataphoretic dip coating
Load classes: **C250, E600***, Length: 50 cm, SW 10 mm

* Exception: Cross-road drainage of busy roads SW = slot width / MW = mesh width

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Cover gratings – KF-100



Design grating, LEAF, ductile-iron, uncoated
Load class: **C250**, Length: 50 cm, SW 5 - 9 mm



Design grating, CELTIC, ductile-iron, uncoated
Load class: **C250**, Length: 50 cm, SW 10 mm



Longitudinal-bar grating, ductile-iron, cataphoretic dip coating
Load class: **D400***, Length: 50 cm, MW 25 x 10 mm



Slotted grating, HEELGUARD, ductile-iron, coated in black
Load class: **D400***, Length: 50 cm, SW 6 mm



Design grating, CIRCLE, GJS ductile-iron, cataphoretic dip coating
Load class: **D400**, Length: 50 cm, Ø 19,5 mm



Design grating, WIRE Design, ductile-iron, cataphoretic dip coating
Load class: **D400***, Length: 50 cm, SW 5 mm



Slotted grating, OvalGrip Design,
ductile-iron, cataphoretic dip coating
Load classes: F900 Length: 50 cm, SW 10 mm
with RapidLock fastening

* Exception: Cross-road drainage of busy roads SW = slot width / MW = mesh width

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Cover gratings cl. **B125** with TwistLock fastening

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm²/m	Weight kg
01004100	4026857000303	Mesh grating, galvanised, MW 30 x 14 mm	100	12.3	870	2.8
01004120	4026857000310	Mesh grating, galvanised, MW 30 x 14 mm	50	12.3	870	1.5
01004140	4026857021759	Slotted plastic grating, Oval Grip Design, color gray, SW 8 mm	50	12.3	338	1.1

Cover gratings cl. **C250** with TwistLock fastening

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm²/m	Weight kg
01004500	4026857000396	Mesh grating, galvanised steel, MW 30 x 10 mm	100	12.3	770	4.2
01004520	4026857000402	Mesh grating, galvanised steel, MW 30 x 10 mm	50	12.3	770	2.2
01005020	4026857000495	Slotted cast iron grating, GJS, SW 10 mm	50	12.3	350	5.8
01005060	4026857019121	Slotted cast iron grating, Oval Grip Design, SW 10 mm	50	12.3	420	3.6
01004510	4026857021766	Slotted plastic grating, Oval Grip Design, color black, SW 8 mm	50	12.3	338	1.1
01004141	4026857034728	Stegrost, Kunststoff, Oval Grip Design, Farbe grau	50	12.3	338	1.1
01004470	4026857029090	Design grating, LEAF, cast iron, uncoated	50	12.3	114	4.1
01004480	4026857029083	Design grating, CELTIC, cast iron, uncoated	50	12.3	222	3.9

Technical data sheet

ANRIN DRAIN Reinforced edge channels KF-100

Cover gratings cl. **D400**¹ with TwistLock fastening

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm ² /m	Weight kg
01004971	4026857033448	Design grating, CIRCLE, GJS ductile-iron, cataphoretic dip coating, Ø 19,5mm	50	12.3	282	3.8
01004972	4026857034018	Design grating, WIRE, GJS ductile-iron, cataphoretic dip coating, SW 5mm	50	12.3	191	4.2
01004900	4026857022459	Mesh grating, galvanised steel, MW 20 x 14 mm	100	12.3	720	5.2
01004920	4026857022442	Mesh grating, galvanised steel, MW 20 x 14 mm	50	12.3	720	2.6
01004970	4026857026211	Longitudinal- bar grating, cast iron GJS, SW 10 mm	50	12.3	420	4.1
01004980	4026857029038	Slotted grating, HEELGUARD, cast iron GJS, coated in black, SW 6 mm	50	12.3	360	3.8
01004982	4026857033554	Slotted grating, HEELGUARD, cast iron GJS, cataphoretic dip coating, SW 6 mm	50	12.3	360	3.8

¹ Exception: Cross-road drainage of busy roads

Cover gratings cl. **E600**¹ with TwistLock fastening

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm ² /m	Weight kg
01005120	4026857000501	Slotted cast iron grating, Oval Grip Design, SW 10 mm	50	12.3	420	5.0
01005130	4026857029106	Slotted steel grating, MASSIV 32, cast iron, uncoated	50	12.3	370	5.8

¹ Exception: Cross-road drainage of busy roads

Cover gratings cl. **F900** with RapidLock fastening

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm ² /m	Weight kg
01006120	4026857035831	Slotted cast iron grating, Oval Grip Design, SW 10 mm	50	12.3	420	5.0

Cover gratings with TwistLock fastening - Accessories

Article no.	EAN	Designation	Length cm	Width cm	Inlet Ø cm ² /m	Weight kg
01004230	4026857000341	KE-/KF-/KS-100 TwistLock fastening, single				

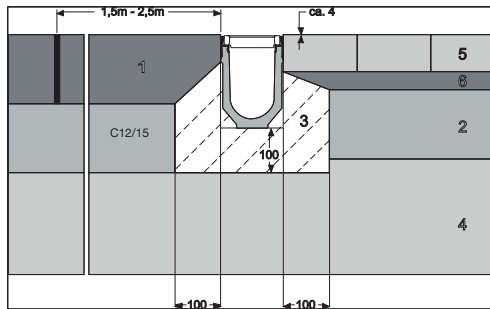
Technical data sheet

ANRIN DRAIN Reinforced edge channels

Installation of the channel systems

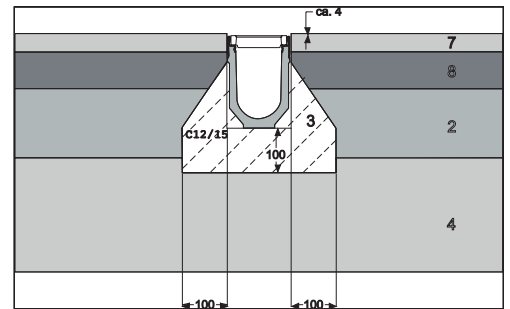
A15

with road concrete
or concrete sheets
or block paving



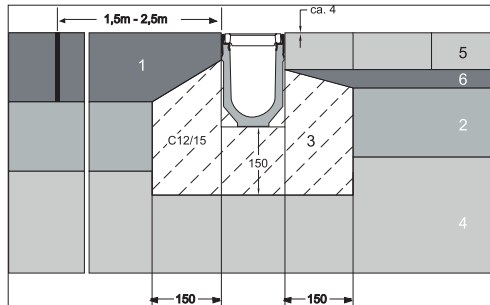
A15

with cast asphalt



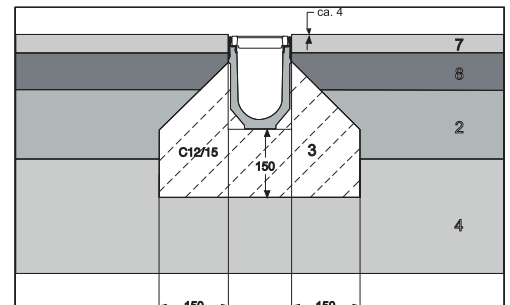
B125

with road concrete
or concrete sheets
or block paving



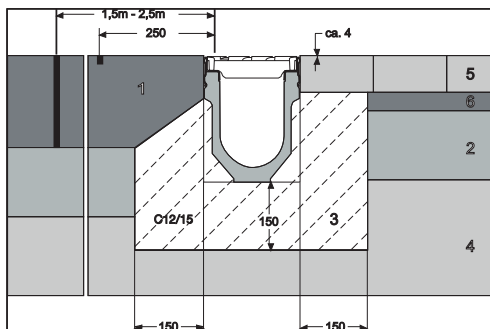
B125

with cast asphalt



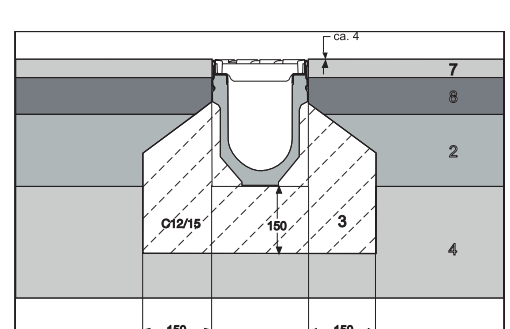
C250

with road concrete
or concrete sheets
or block paving



C250

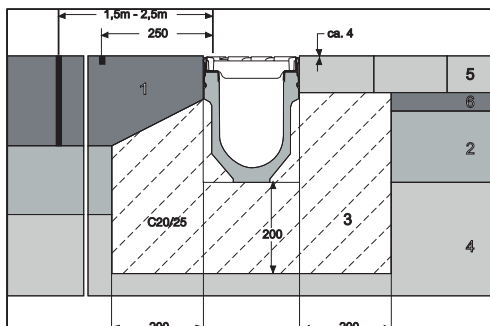
with cast asphalt



D400

E600

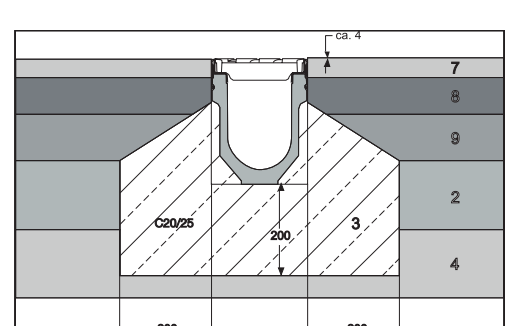
with road concrete
or concrete sheets
or block paving



D400,

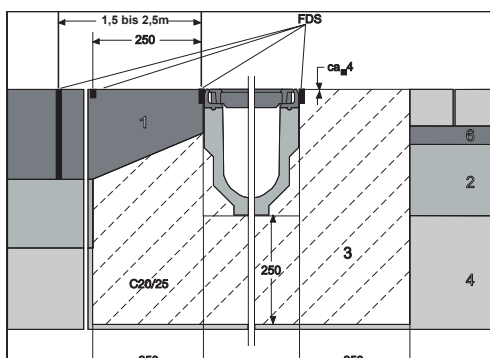
E600

with cast asphalt



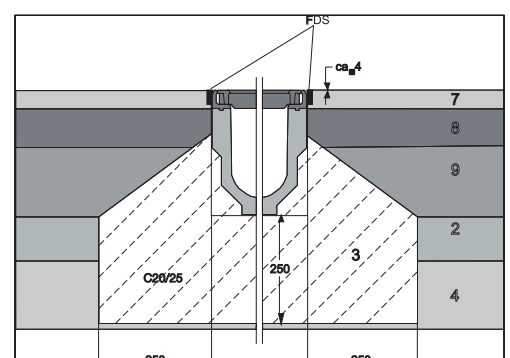
F900

with road concrete
or concrete sheets
or block paving



F900

with cast asphalt



1. Cast road concrete
2. Base
3. Concrete cladding of the channel body
4. Sub-base, natural soil
5. Prefabricated concrete sheets or stone systems

6. Paving bed
7. Wearing course
8. Bonding course
9. Bitumen base
- FDS = joint sealing system



ANRIN GmbH
Siemensstr. 1
59609 Anröchte
Germany

+49 (0) 29 47.97 81-0
www.anrin.com
info@anrin.com