

Heavy duty made easy. Integrated seal as standard.

ACO DRAIN® Multiline HD Seal in



The image shows a close-up of the ACO DRAIN Multiline HD Seal in product. It is a heavy-duty drainage system component, featuring a reinforced cast iron frame and a robust channel body. The top surface is covered with a series of parallel, raised ridges. The side of the channel body is perforated with a series of rectangular holes. The product is shown in a cross-section view, revealing the internal structure and the seal in technology. It is resting on a stack of similar components, which are also shown in cross-section, highlighting the consistent design across the product line.

ACO DRAIN® Multiline HD Seal in

The new Multiline HD combines the tried-and-tested Seal in technology with a more-robust channel body and a reinforced cast iron frame. This allows surface coverings to be laid directly next to the system up to load class D400.

HD (Heavy Duty) refers to reinforced channel bodies within a product family.



HD

Multiline HD Seal in

The new Multiline with a reinforced cast iron frame and a more-robust channel body

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Drainlock Gratings

A large selection of covers, e.g. the new cast iron grating "Ray"

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ACO. creating the future of drainage



ACO Tiefbau

As a reliable partner of the specialist civil engineering construction materials trade, ACO offers solutions for professional surface water management and water protection. They play a large role in the planning and design of urban, infrastructural and industrial drainage. Whether for public clients, consultant engineers, landscape architects, contractors and operators, within the

ACO Group, ACO Tiefbau not only provides innovative product solutions for civil engineering, road construction and landscape gardening. With comprehensive design tools and services, ACO Tiefbau also assists with the design, construction and sustainable operation of modern drainage systems.

www.aco-tiefbau.de



Headquarters of the ACO Group in Rendsburg/Büdelndorf, German



Hans-Julius Ahlmann and his son Iver



The ACO Group

The ACO Group is a world market leader in drainage technology. Climate change sets us a challenge to react effectively with innovative solutions to new environmental conditions. With its integrated approach, ACO stands for professional drainage, efficient cleaning, and the controlled discharge or reuse of water. Products include drainage channels and drains, oil and grease separators, backflow stop systems, pumps and pressurewater-tight cellar windows and light shafts.

The family-owned company headquartered in Rendsburg/Büdelndorf, Germany, was founded in 1946 on the site of the Carlshütte foundry – Schleswig-Holstein's first industrial company. It still has very strong roots in the region. The major innovation strength of the ACO Group is built on intense research and development, and its technical expertise in processing polymer concrete, plastic, cast iron, stainless steel and reinforced concrete.

ACO Group at a glance

- 4800 employees in more than 40 countries (Europe, America, Asia, Australia, Africa)
- 30 production sites in 15 countries
- Sales 2017: Euro 775 million

**ACO. creating
the future of drainage**



ACO Academy for practical training

**Direct installation in
asphalt paving**

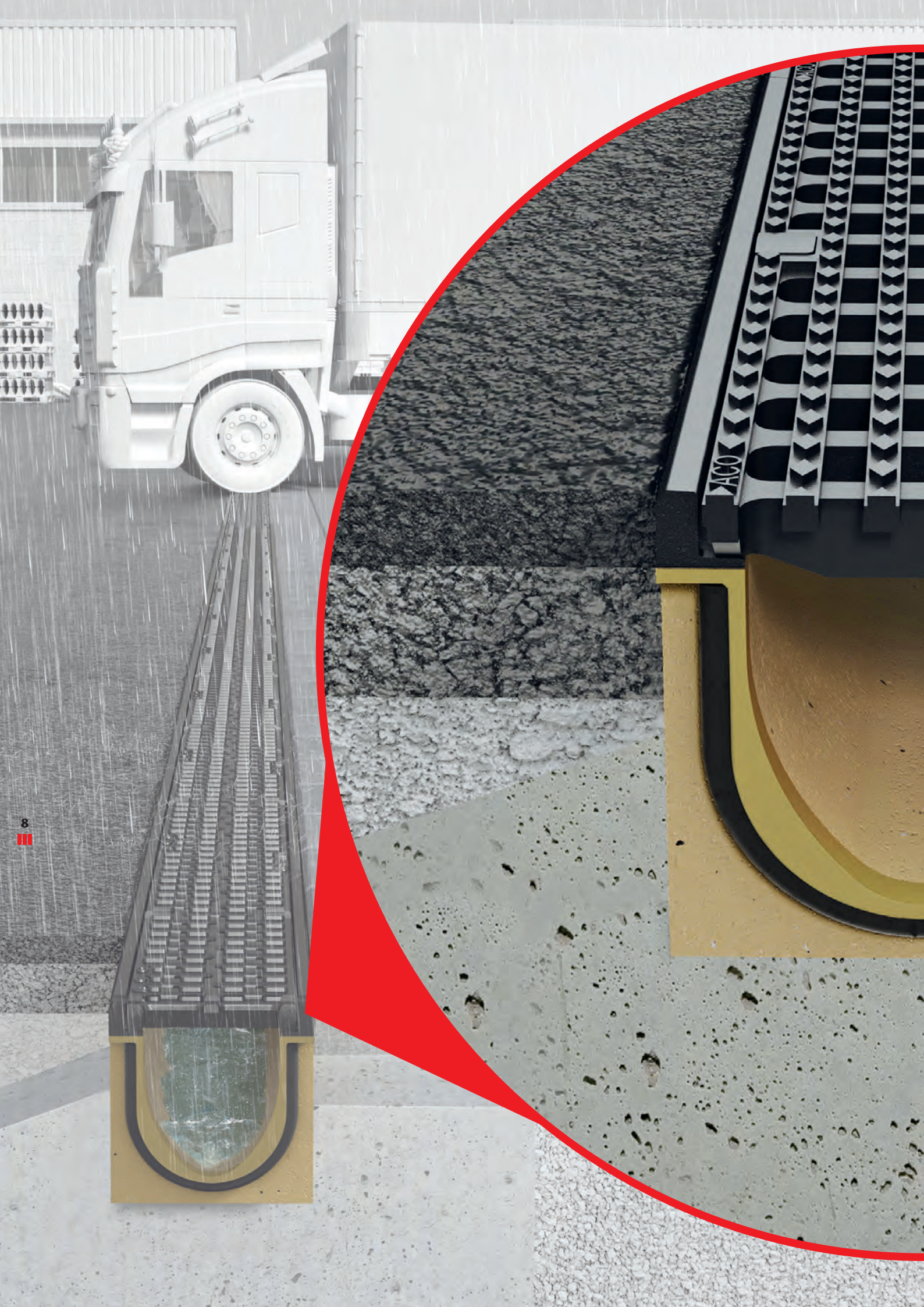


ACO Multiline **HD** Seal in

Heavy duty made easy

The E 600-class Multiline HD Seal in system is the successor to the previous Multiline system with cast iron edge protection. During the development of the channel system, special attention was paid to its practical application in areas in which lorries and heavy goods vehicles operate. The suffix HD comprises a reinforced channel drain with a 12-mm cast iron edge. In heavy-duty industrial applications with a load class of up to D 400, surface coverings can be laid

directly next to the ACO Multiline HD Seal in system. The asphalt base course is laid all the way up to the cast iron frame and the framing Block of the pavement is installed directly next to the cast iron frame. The Multiline HD with Seal in technology also adds a nice touch to the design of open spaces. The cast iron gratings with longitudinal bars open up new opportunities.





Multiline **HD Seal in** opens up new opportunities

Cast iron frame

The 12-mm wide cast iron frame and the reinforced channel body allow for efficient installation. When installed in combination with cast iron gratings, the drainage channel adds a nice touch in garden and landscaping applications.

Direct installation

In application areas with a load class of up to D 400, surface coverings can be laid directly next to the ACO drainage systems. This gives rise to economic, structural and visual benefits for building owners and processors.

Strong side wall

The channel bodies feature a reinforced design. Nevertheless, they are easy to handle thanks to polymer concrete.

Sealing

Thanks to the Seal in technology, the combination of the ACO polymer concrete with the seal ensures a leak-tight channel run as standard. It is tested and certified by the german IKT (Institute for Underground Infrastructure).

Seal**in**
TECHNOLOGY



Grating product range

A wide range of covers in numerous designs, colours and materials – e.g. made from galvanised or stainless steel, cast iron or plastic – provides sufficient creative scope for individual planning and design.



Technical information – Channel bodies

ACO DRAIN® Multiline is based on a system concept that offers benefits to everyone, from planners and merchants to building contractors and building owners.

Planners save time when tendering, as the Multiline system concept allows for a high level of standardisation in the interfaces.

Merchants benefit from the streamlined product range. Building owners are happy with the sophisticated design and construction solutions. In application areas with a load class of up to D 400, surface coverings can be installed directly next to the Multiline HD Sealin.

V 100 – cast iron edge protection

ACO Product benefits

- Watertight channel train due to Sealin technology (as per IKT test mark D00978)
 - With EPDM seal in the channel joint as a standard feature
 - Channel body made of resistant ACO polymer concrete
 - Familiar easy installation
- For groundwater protection
- For structural protection
- For controlled rainwater management
- Improved self-cleaning due to V shaped cross-section and continuously smooth channel bottom
- Robust channel body
- With Drainlock boltless grating stop

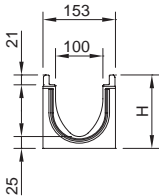
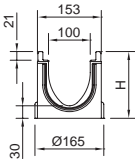
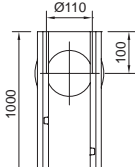
- Channel system to EN 1433/ DIN 19580
- Nominal width of 100 mm
- Load classes A 15 – E 600
- With 12-mm cast iron edge protection



Channel body without invert slope, 1000 mm

- Optionally with or without a vertical water tight pipe connection with a lip labyrinth seal (LLS) made from NBR
- Possible combinations for the channel bodies (example):
 - 0.0 – 0.0.2 – 0.1 – 0.2
- *) Channel bodies with LLS pipe connections have a bottom thickness that is 5 mm thicker than connectable channel bodies
 - Example: 5.0.2 corresponds to types 5, 5.0, 5.1

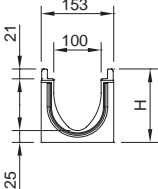
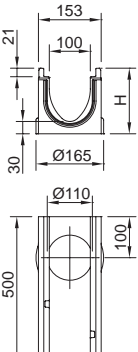


	Dimensions			Type	PU	Cast iron	
	Length	Width	Height			Weight	Item number
	[mm]	[mm]	[mm]			[kg]	
	1000	153	155	0.0	20	24,6	132930
			180	5.0	20	26,8	132940
			205	10.0	20	29,2	132950
			255	20.0	10	33,9	132970
With LLS pipe connection DN/OD 110							
 	1000	153	160 ^{*)}	0.0.2	10	25,6	132934
			185 ^{*)}	5.0.2	10	28,1	132944
			210 ^{*)}	10.0.2	10	30,6	132954
			260 ^{*)}	20.0.2	5	35,8	132974

Channel body without invert slope, 500 mm

- Optionally with or without a vertical water-tight pipe connection with a lip labyrinth seal (LLS) made from NBR
 - With precast lateral openings for corner, T- and cross joints (adapter necessary, see accessories)
 - *) Channel bodies with LLS pipe connections have a floor thickness that is 5 mm thicker than connectable channel bodies
- Example: 5.2 corresponds to types 5, 5.0 and 5.1



	Length [mm]	Dimensions Width [mm]	Height [mm]	Type	PU [pc]	Cast Iron	
						Weight	Item number
						[kg]	
	500	153	155	0.1	10	12,6	132932
			180	5.1	10	13,8	132942
			205	10.1	10	15,1	132952
			255	20.1	10	17,6	132972
With LLS pipe connection DN/OD 110							
	500	153	160 ^{*)}	0.2	10	13,2	132933
			185 ^{*)}	5.2	10	14,7	132943
			210 ^{*)}	10.2	10	16,1	132953
			260 ^{*)}	20.2	10	19,0	132973

Channel body with invert slope, 1000 mm

- For installation with integrated 0,5% slope
- Type 1–10 for a channel length of up to 10 m
- Every type can be connected directly to sump unit
- Possible combinations for channel bodies:
 - Type 5 – 5.0 – 5.0.2 – 5.1 – 5.2
 - Type 10 – 10.0 – 10.0.2 – 10.1 – 10.2



	Length [mm]	Dimensions		Type	PU [pc]	Cast iron	
		Width [mm]	Start/end height [mm]			Weight [kg]	Item number
	1000	153	155/160	1	10	24,9	132901
			160/165	2	10	25,3	132902
			165/170	3	10	25,7	132903
			170/175	4	10	26,2	132904
			175/180	5	10	26,7	132905
			180/185	6	10	27,1	132906
			185/190	7	10	27,6	132907
			190/195	8	10	28,0	132908
			195/200	9	10	28,5	132909
			200/205	10	10	29,0	132910

Channel body with step of invert (5 cm), 500 mm

- For bridging the invert gradient when laying in stepped gradient
- From 10. - 20. (Invert step of 5 cm)
- Made from polymer concrete

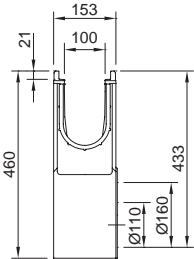
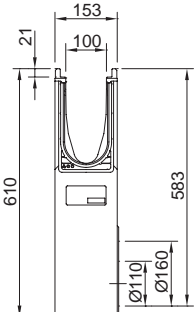


	Length [mm]	Dimensions		PU [pc]	Cast iron	
		Width [mm]	Height [mm]		Weight [kg]	Item number
	500	153	255	5	17,4	132975





Sump unit, 500 mm

- With lip labyrinth seal (LLS) made from NBR for horizontal watertight pipe connection
- With connection adapters for watertight channel connection
- With end cap (1 unit) for the one-sided, watertight sealing of the sump unit
- With a sludge trap made from PP plastic
- Short version (SV) design for a construction height of 0–10, or long version (LV) for a construction height of 0–20



	Dimensions			Pipe connection DN/OD	PU	Cast iron	
	Length	Width	Height			Weight	Item number
	[mm]	[mm]	[mm]			[mm]	[pc]
Short version, with LLS pipe connection							
	500	153	460	110	10	33,3	132991
				160	10	32,3	132998
Long version, with LLS pipe connection							
	500	153	460	110	10	45,2	132992
				160	10	44,2	132999

Accessories

	Description	Used with	Weight [kg]	PU [pc]	Item number
For cast iron version					
	Universal end cap <ul style="list-style-type: none"> ■ For the start and end of a channel ■ Made from polymer concrete ■ With black-coated edge-protection ■ Length 25 mm 	■ V 100 G 0. – 20.	1,7	10	132985
	End cap with lip labyrinth seal (LLS) <ul style="list-style-type: none"> ■ Made from polymer concrete ■ With integrated lip labyrinth seal (LLS) DN/OD 110 for horizontal, water tight Pipe connection ■ With black-coated edge-protection ■ Length 40 mm 	■ V 100 G 0.	1,6	6	132946
		■ V 100 G 5.	2,0	6	132947
		■ V 100 G 10.	2,3	6	132948
		■ V 100 G 20.	3,1	6	132949
	Adapter for change in flow direction <ul style="list-style-type: none"> ■ Made from polymer concrete ■ With black-coated edge-protection Length 40 mm ■ For gluing to the to channel body 	■ V 100 G 0.	1,5	6	132956
		■ V 100 G 5.	1,6	6	132957
		■ V 100 G 10.	1,7	6	132958
		■ V 100 G 20.	2,0	6	132959
	Adapter for corner, T and cross connectors <ul style="list-style-type: none"> ■ Made from polymer concrete ■ With black-coated edge-protection ■ Length 25 mm ■ For watertight connection of corner, T and cross joints ■ For gluing to the to channel body 	■ V 100 G 0.	1,3	6	132966
		■ V 100 G 5.	1,4	6	132967
		■ V 100 G 10.	1,5	6	132968
		■ V 100 G 20.	1,7	6	132969

Multiline HD Seal in V 100 (NW 100 mm)
Channel bodies, sump unit and accessories

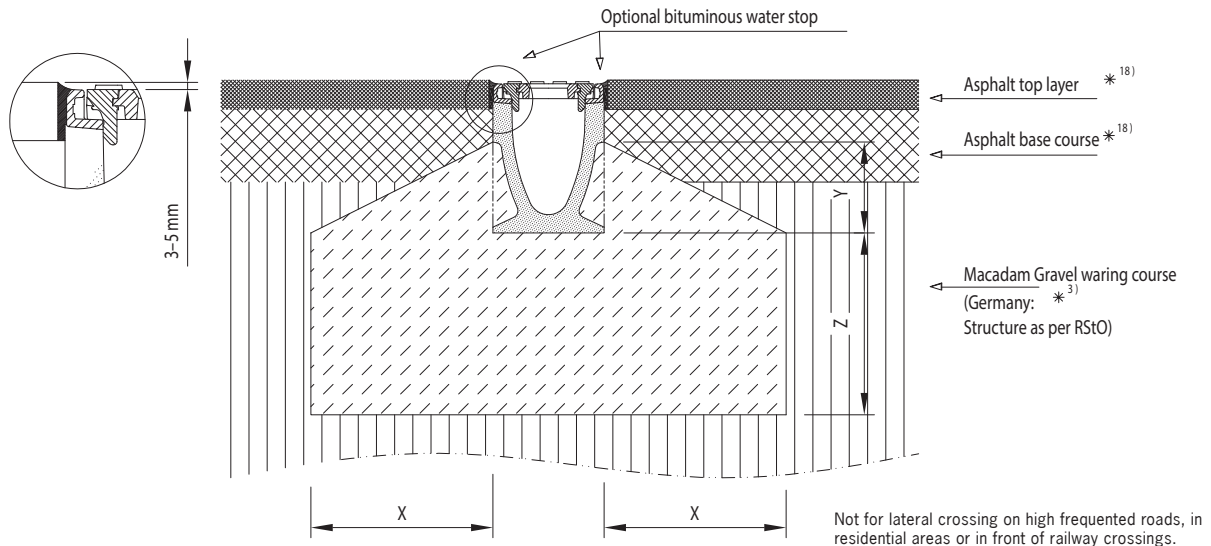
	Description	Used with	Weight [kg]	PU [pc]	Item number
Accessories for all materials					
	Silicone grease <ul style="list-style-type: none"> ■ Corresponds to the guidelines of the UBA (German Federal Environmental Agency) for sanitary lubricants, food lubricants to EN ISO 21469, used with drinking water, O-ring compatible ■ Content: 23 g <ul style="list-style-type: none"> □ 0.0 approx. 40 channel joints □ 10.0 approx. 30 channel joints □ 20.0 approx. 20 channel joints 	■ Seal in technology	0,1	40	132495
	Foul air trap <ul style="list-style-type: none"> ■ Stainless steel (V2A) ■ DN/OD 110 	■ Multiline Seal in □ DN/OD 110	0,4	6	132493
	Leaf trap <ul style="list-style-type: none"> ■ DN/OD 110 	■ Multiline Seal in □ DN/OD 110 ■ Multiline V 100	0,5	10	02769
	Pipe socket <ul style="list-style-type: none"> ■ PVC ■ DN/OD 110 ■ Length: 100 mm 	■ Multiline Seal in V 100 ■ Multiline V 100 ■ Multiline V 100 sump unit ■ Monoblock PD 100 V ■ Monoblock RD 100 V ■ Yard gully	0,15	50	00056
	Foul air trap <ul style="list-style-type: none"> ■ PP ■ DN/OD 110 ■ One-piece design 	■ Sump unit □ Short and long version	0,2	5	01509
	Foul air trap <ul style="list-style-type: none"> ■ PVC ■ DN/OD 160 	■ Multiline V 100 – V 300 sump unit ■ Monoblock PD ■ Monoblock RD 100 V and 200 V ■ Point drainage	2,0	5	02638
	Polyester bonding compound <ul style="list-style-type: none"> ■ For bonding on site ■ 0,5-kg-container 	■ For bonding polymer concrete finished parts	0,9	10	02163

Installing a channel body with a cast iron frame

According to planners advice and/or local regulations

Installation in asphalt, class A 15 to D 400

See index list *7 in the case of extreme loads



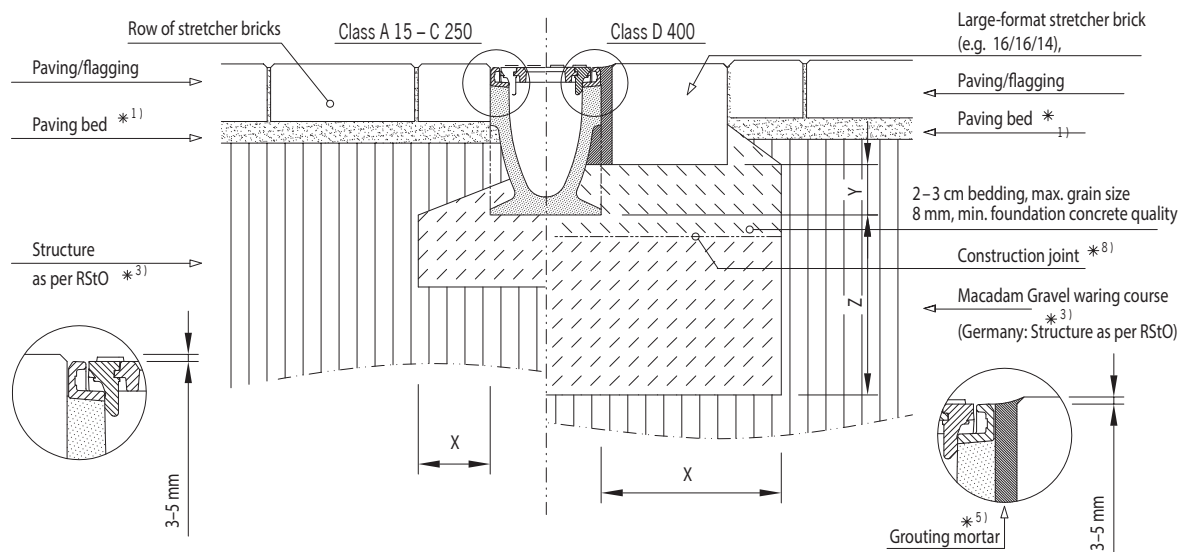
Load class	(as per DIN EN 1433)	A 15	B 125	C 250	D 400	E 600
Compressive strength class of foundation concrete	(as per DIN EN 206-1)	≥ C 12/15	≥ C 12/15	≥ C 12/15	≥ C 25/30	
Exposure class of foundation concrete *16)		(X0)	(X0)	(X0)	(X0)	
Foundation dimensions – Type M (as per DIN EN 1433)						
X [cm]		≥ 10	≥ 10	≥ 15	≥ 25	
Y [cm]		≥ 5	≥ 5	≥ 5	Top edge anchoring pocket	
Z [cm]		≥ 10	≥ 10	≥ 15	≥ 25	

Applies only in connection with the general preliminary notes and the index list in our installation instructions!
Download at www.aco-tiefbau.de

Diagrams G1-E01-781-3 and 782-3, last updated on 12.17

Installation in paving, class A 15 to D 400

See index list *7 in the case of extreme loads



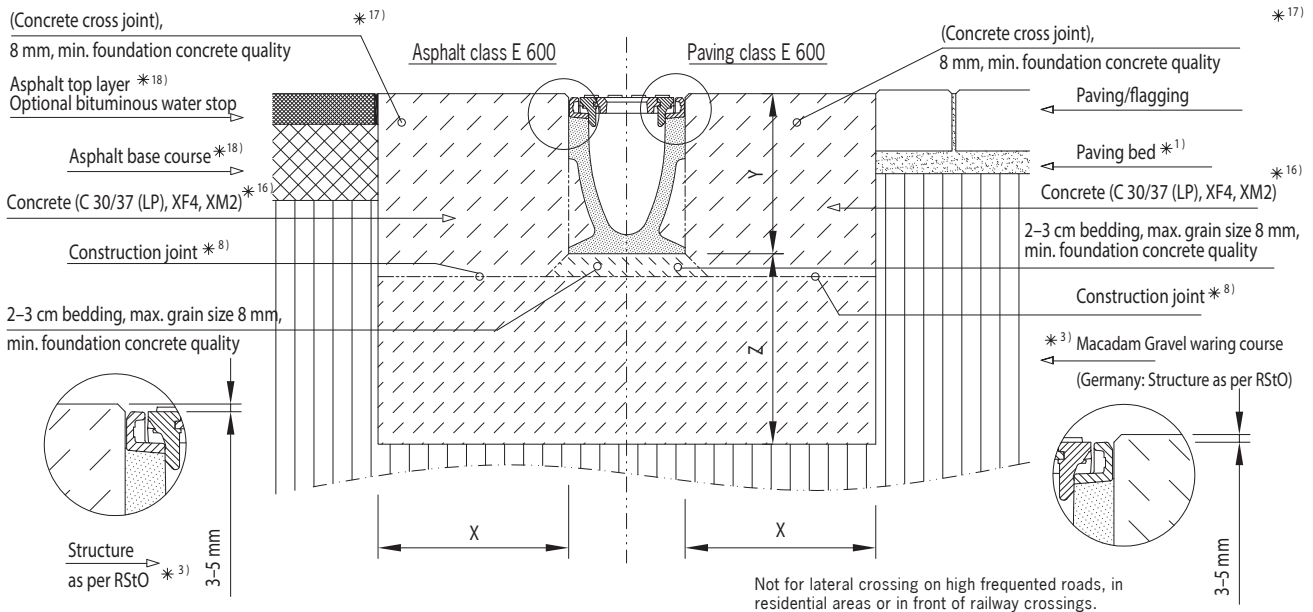
Load class	(as per DIN EN 1433)	A 15	B 125	C 250	D 400	E 600
Compressive strength class of foundation concrete	(as per DIN EN 206-1)	≥ C 12/15	≥ C 12/15	≥ C 12/15	≥ C 25/30	
Exposure class of foundation concrete *16)		(X0)	(X0)	(X0)	(X0)	
Foundation dimensions – Type M (as per DIN EN 1433)						
X [cm]		≥ 10	≥ 10	≥ 15	≥ 25	
Y [cm]		≥ 5	≥ 5	≥ 5	Paving bed	
Z [cm]		≥ 10	≥ 10	≥ 15	≥ 25	

Applies only in connection with the general preliminary notes and the index list in our installation instructions!
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Diagrams G1-E01-781-3 and 782-3, last updated on 12.17

Installation in asphalt or paving, E 600

See index list *7 in the case of extreme loads



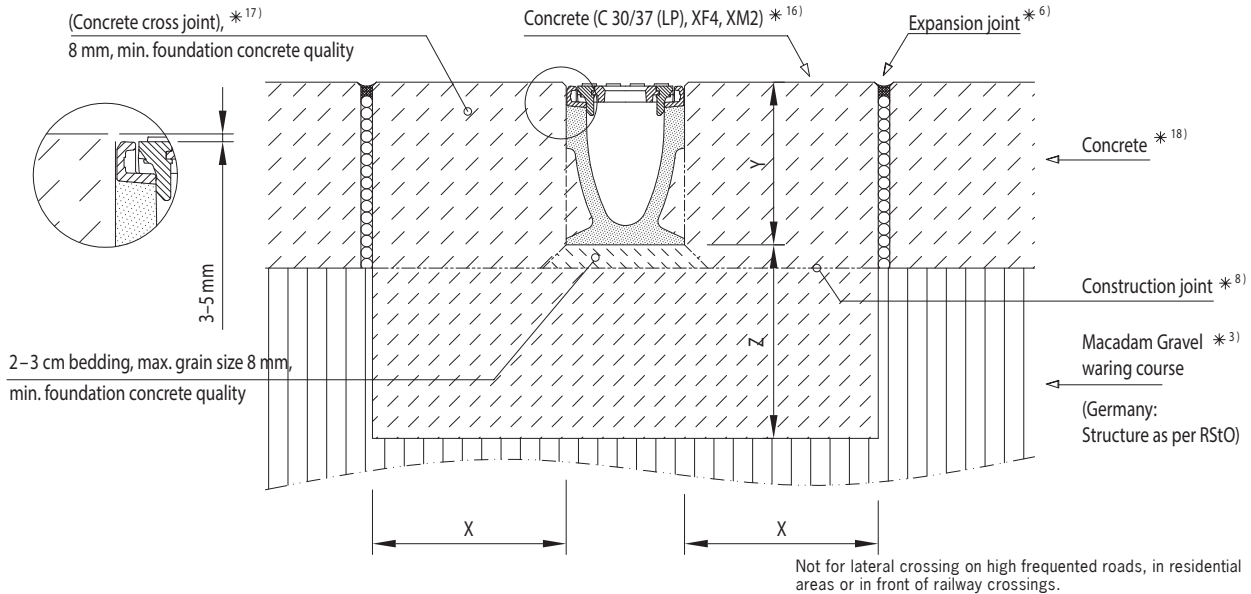
Load class	(as per DIN EN 1433)	A 15	B 125	C 250	D 400	E 600
Compressive strength class of foundation concrete	(as per DIN EN 206-1)					≥ C 30/37
Exposure class of foundation concrete						(X0)
Foundation dimensions – Type M (as per DIN EN 1433)	X [cm]					≥ 25
	Y [cm]				Construction height of channel element	
	Z [cm]					≥ 25

Applies only in connection with the general preliminary notes and the index list in our installation instructions!
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Diagrams G1-E01-785-3 and 783-3, last updated on 12.17

Installation in concrete, class A 15 to E 600

See index list *7 in the case of extreme loads



Load class	(as per DIN EN 1433)	A 15	B 125	C 250	D 400	E 600
Compressive strength class of foundation concrete	(as per DIN EN 206-1)	≥ C 12/15	≥ C 12/15	≥ C 20/25	≥ C 25/30	≥ C 30/37
Exposure class of foundation concrete *16)		(X0)	(X0)	(X0)	(X0)	(X0)
Foundation dimensions – Type M (as per DIN EN 1433)	X [cm]	≥ 10	≥ 10	≥ 15	≥ 25	≥ 25
	Y [cm]	Construction height of channel element				
	Z [cm]					
		≥ 10	≥ 10	≥ 15	≥ 25	≥ 25

Applies only in connection with the general preliminary notes and the index list in our installation instructions!
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Diagram G1-E01-786-3, last updated on 12.17



Technical information – Drainlock gratings

A wide range of covers in numerous designs, colours and materials provides sufficient creative scope for individual planning and design. Drainlock gratings meet architectural requirements with respect to aesthetics, functionality and load, can be combined independent of the channel body and are available for load classes from A 15 to E 600.



The complete range of gratings in the Grating Configurator

The Configurator allows covers to be selected according to visual criteria in a wide range of scenarios. Technical information can be downloaded or saved in the project file.

www.draindesign.de



Aesthetic drainage solutions brochure



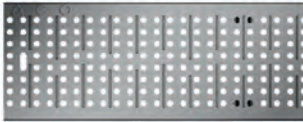
Drainage is a key element of the visual appearance of public spaces and squares. This brochure contains exceptional design options involving ACO products.

www.aco-tiefbau.de/service/download/prospekte





Drainlock gratings – nominal width of 100 mm





- Gratings in accordance with DIN EN 1433/DIN 19580
- With boltless Drainlock locking mechanism

Load class A 15

	Material	Dimensions		Inlet opening size	Inlet cross-section	Weight	PU	Item number
		Length [mm]	Width [mm]	[mm]	[cm²/m]	[kg]	[pc]	
Ladder grating								
	Galvanised steel	1000	123	10	312	1,9	50	12610
		500	123	10	312	0,9	25	12611
Longitudinal bar grating								
	Galvanised steel	1000	123	11	920	3,2	50	12602
		500	123	11	920	1,8	25	12603
Perforated grating								
	Galvanised steel	1000	123	6	178	2,9	50	12666
		500	123	6	178	1,4	25	12667

Load class B 125

	Material	Dimensions		Inlet opening size	Inlet cross-section	Weight	PU	Item number
		Length [mm]	Width [mm]	[mm]	[cm²]	[kg]	[pc]	
Mesh grating Q+								
	Galvanised steel	1000	123	30 x 10	845	3,2	50	132560
		500	123	30 x 10	845	1,6	25	132561
Longitudinal profile grating								
	Galvanised steel	1000	123	8	430	3,9	50	132555
		500	123	8	430	1,9	25	132550
Ladder grating								
	EN-GJS cast iron	500	123	12	371	2,3	50	12676
Crosswise bar grating								
	Galvanised steel	1000	123	10	676	6,5	50	12606
		500	123	10	676	3,3	25	12607

	Material	Dimensions		Inlet opening size	Inlet cross-section	Weight	PU	Item number
		Length [mm]	Width [mm]	[mm]	[cm²]	[kg]	[pc]	
Composite grating, Microgrip (black)								
	Plastic	500	123	8	284	0,9	50	132710
Composite grating (silver grey)								
	Plastic	500	123	8	284	0,8	50	132267
Composite grating with Eyeleds (light colour: white)								
	Plastic	500	123	8	280	0,95	50	12686
Composite grating with Eyeleds (light colour: blue)								
	Plastic	500	123	8	280	0,95	50	12727

Awards

Awards for the longitudinal profile grating



reddot design award
winner 2015



German
Design Award
NOMINEE 2015



GERMAN
DESIGN
AWARD
SPECIAL
2016

Award for the ACO DRAIN® Multiline System

Brochures available for download



The Downloads area provides you with a practical overview of all of the product brochures we have prepared for you. You can either download the brochures or find out more online!






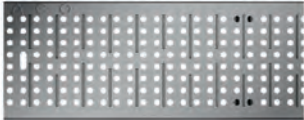



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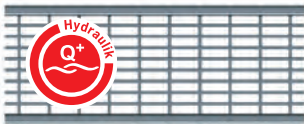


Download ACO brochures

Drainage of ramps, underground car parks and parking levels




Load class C 250

	Material	Dimensions		Inlet opening size	Inlet cross-section	Weight	PU	Item number
		Length	Width					
		[mm]	[mm]	[mm]	[cm²/m]	[kg]	[pc]	
Ladder grating								
	EN-GJS cast iron	500	123	12	371	3,2	50	12670
	Galvanised steel	1000	123	10	312	4,3	50	12614
		500	123	10	312	2,2	25	12615
Cast iron longitudinal bar grating in mesh design								
	EN-GJS cast iron	500	123	31 x 12	433	3,5	50	12673
Cast iron longitudinal bar grating "Design Ray"								
	EN-GJS cast iron	500	123	38 x 12,5	470	5,1	50	132081
Ladder grating, Heelguard								
	EN-GJS cast iron	500	123	5	191	3,8	50	12675
Perforated grating								
	Galvanised steel	1000	123	6	178	4,8	50	12656
		500	123	6	178	2,3	25	12657
Composite grating, Microgrip (black)								
	Plastic	500	123	8	284	1,0	50	132720
Composite grating (silver/grey)								
	Plastic	500	123	8	284	0,9	25	132266
Mesh grating Q+								
	Galvanised steel	1000	123	30 x 10	800	4,8	50	132880
		500	123	30 x 10	800	2,4	25	132881

Load class D 400

	Material	Dimensions		Inlet opening size [mm]	Inlet cross-section [cm ² /m]	Weight [kg]	PU [pc]	Item number
		Length [mm]	Width [mm]					
Ladder grating								
	EN-GJS cast iron	500	123	12	371	3,8	50	23408
Mesh grating Q+								
	Galvanised steel	1000	123	30 x 10	690	5,2	50	132885
		500	123	30 x 10	690	2,6	25	132886
Ladder grating for light point, with opening								
	EN-GJS cast iron, KTL-coating	500	123	12	350	4,1	50	49505
Ladder grating for light point, without opening								
	EN-GJS cast iron, KTL-coating	500	123	12	371	4,1	50	49506

Load class E 600

	Material	Dimensions		Inlet opening size [mm]	Inlet cross-section [cm²/m]	Weight [kg]	PU [pc]	Item number
		Length [mm]	Width [mm]					
Ladder grating								
	EN-GJS cast iron	500	123	12	371	5,0	50	132865
Cast iron longitudinal bar grating in mesh design								
	EN-GJS cast iron	500	123	28 x 12	433	4,5	50	132866
Cover, closed								
	EN-GJS cast iron	500	123	–	–	5,5	50	132867

¹⁾ 1) LED lights, as well as transformers and other accessories, are available from INSTA GmbH (www.insta.de).

ACO materials

In the design of components and structural elements, the choice of suitable material determines the aesthetic and functional qualities of the product. The materials used by ACO are characterised by their strength, ageing resistance and their resistance to aggressive media, frost, heat and sunlight. Thanks to their long life and recyclability, they are equally sustainable and environmentally compatible and are used in an application-orientated way.

Polymer concrete

With 30 production locations worldwide, we consistently implement our ideas of product quality, economic efficiency and on-time delivery to our customers. Each of our factories has special materials expertise, from which the entire ACO Group profits. Keeping our production technology and ecological performance up-to-date and in line with the latest standards is part of our standard of acting responsibly as a company and to be a worldwide leader.



ACO polymer concrete - a better idea

The special material composition and state-of-the-art production technology give polymer concrete its outstanding properties profile. ACO polymer concrete products have high strength values and a low weight. ACO polymer concrete is waterproof. Water dries quickly. Frost damage is excluded. The smooth surface of ACO polymer concrete allows water and dirt particles to run off quickly and is easy to clean. Polymer concrete is also resistant to aggressive media without requiring additional coatings and can be used versatily and durably even under extreme conditions.

Cast iron



ACO cast iron – quality for all standards

The types of cast iron used by ACO Guss in Kaiserslautern and Aarbergen are adapted to the continuously increasing requirements through intensive innovation and development processes:

Both cast iron with lamellar graphite (grey cast iron GJL) and cast iron with nodular graphite (spheroidal cast iron GJS) have proven their worth as materials for use in cast iron sewers due to their high corrosion resistance. ACO Guss offers the optimum solution for the respective application, independent of the material.

Plastic



ACO plastic – innovative and flexible

Components made of plastic offer the greatest possible design freedom with regard to form and function. We use this potential to avoid expensive material combinations and time-consuming jointing processes and to develop intelligent solutions “cast in one piece” to take their place. The plastics used by ACO are characterised not only by their high breaking stress (crushing strength) but also by their outstanding resistance to environmental influences. Simple machining options and low weight are the reasons for the outstanding user-friendliness of our plastic solutions.

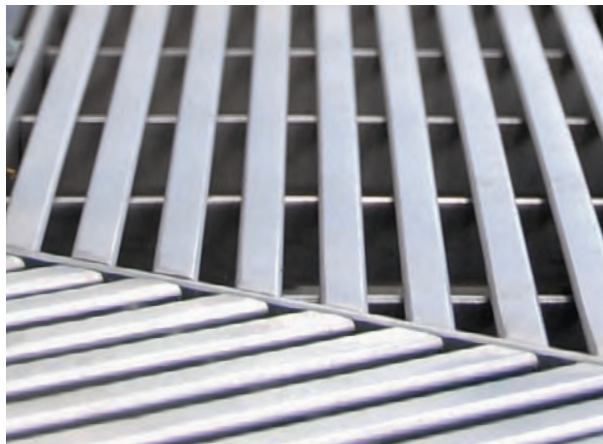
Concrete



ACO concrete – durable and reliable

Concrete is a material that plays a decisive role in tank construction for separator and drainage technology. ACO tanks for drainage technology are made from a highly waterproof concrete, have a very high resistance and stability. The tanks can be used as separators, pumping stations, accident (spillage) systems or special chambers and can also be equipped with a plastic coating or lining. ACO tanks made of concrete are a durable solution for the drainage and treatment of water.

Steel/stainless steel



ACO steel/stainless steel – sophisticated components

The processing of both steel and stainless steel is a core expertise of ACO in the different production facilities of the ACO Group worldwide. Large investment sums ensure that our production facilities are always state-of-the-art. The high qualification of our skilled workers ensure high quality products. Our own in-house plants for surface protection and finishing are used, among other things, in the production of ACO Drainlock gratings.

Four guiding questions in surface water management



How does surface water management and water protection begin?

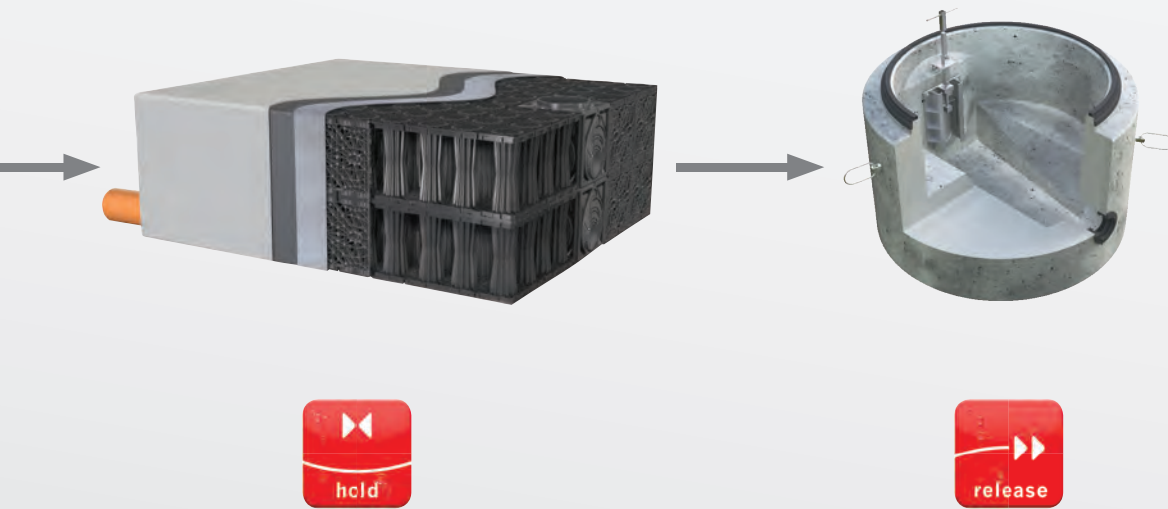
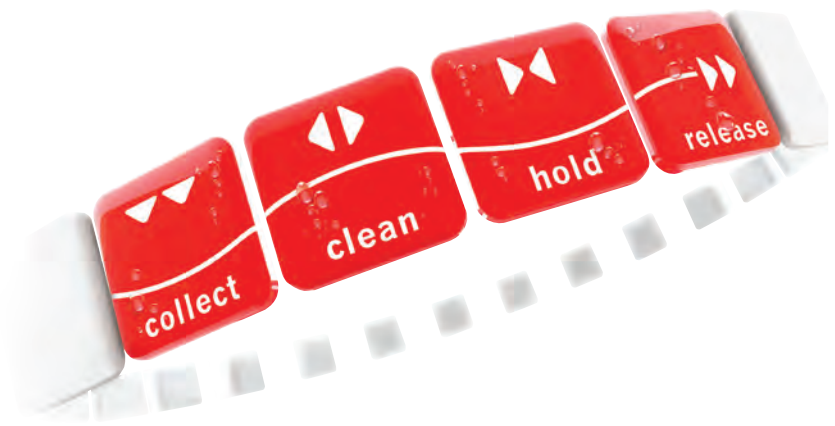
ACO surface water drainage

- Drainage channels
- Road and yard drains
- Gully tops
- Manhole covers

How to achieve the right water quality?

ACO cleaning systems

- Separators
- Sedimentation and filtration systems



How to reduce surface runoff to a natural level?

ACO infiltration/ attenuation systems

- Control valve shafts
- Infiltration and attenuation systems
- Retention basins made of concrete

How to control the discharge rate to the required level?

ACO control systems

- Flow control systems
- Pump shafts

The ACO offer for customers

Every project is different, with its own demands and challenges.

In addition to our top products, we also make available our in-depth know-how and our services to assist you in developing individual customised solutions – from planning to service provision after completion.



train:

Information and further training

At the ACO Academy, we share the in-depth expertise of the global ACO Group with architects, planners, operatives and dealers who place a high priority on quality. We invite you to attend and benefit from this know-how.

design:

Planning and optimisation

Tendering and planning for drainage solutions can be based on a range of possible options. But which concept produces the best economic and safest technical solution? We can help you find the optimum answer.



support:

Construction advice and assistance

To ensure that there are no nasty surprises between the planning and implementation of a drainage solution, we can provide you with project specific advice and support at your construction site.

care:

Inspection and maintenance

ACO products are designed and manufactured for long service lives. With our after sales service, we ensure that ACO fully satisfies its high quality standards even after many years of efficient operation.

www.aco-tiefbau.de

ACO Tiefbau on the Internet

You will find our products with all the information important to you on the ACO Tiefbau website. You can use it during the design, not only to access technical descriptions but also the corresponding image information and tender specification texts and installation instructions and information.



/ACO.tiefbau

**ACO academy
for practical training**

The ACO Academy events are something special: They impart sound practical knowledge of all aspects of construction and at the same time, are a place for practitioners from the entire industry to meet and exchange ideas and experiences. The ACO academy is a forum for excellent building. Future topics of the construction industry and compact know-how for all aspects of construction are taught with practical reference. Find out about the contents of the seminars on offer.

**Do you have any further
questions? askACO**

We invite you to askACO. Together, we can find the right solution for your specific drainage problem.

**[www.aco-tiefbau.de/
askaco](http://www.aco-tiefbau.de/askaco)**



**Every ACO Tiefbau product supports
the ACO system chain**

- Drainage channels
- Road and yard gullies
- Accident systems
- Manhole covers
- Separators
- Sedimentation and filter systems
- Block infiltration modules
- Surface water retention basins
- Flow-limiting systems
- Pumping stations
- Tree protection
- Amphibian protection

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