



ACO DRAIN[®] high performance
products for surface water

drainage on race tracks



Highest quality for maximum safety

If athletes in their cars are to produce outstanding performances, they also require optimal conditions. As an experienced race track construction partner, ACO is called on for its expertise around the world: race track drainage systems and safe, competition-friendly system elements have proven their worth time and time again in a lot of Car racing tracks, almost all Olympic stadiums built since 1972, as well as numerous other sports facilities.

The systems ensure that water is rapidly drained so that the sporting facilities can be used throughout the year. Kerbs and boundary systems for high competitive race tracks ensure that competitions can be carried out safely and securely. Even storm water situations are no reason stopping the engines.

Surface water drainage systems for all applications on race tracks:

- The track
- Pits and pit lane
- Paddock area
- Pit buildings
- Connected infrastructure such as roads, parking, motor homes and other buildings



ACO DRAIN® Race track – Projects

Project	Volume (m)	Channel Systems	Built in
Nuerburg-Ring	4000	■ S100 K/ S150 K/ S200 K	1998–2002
Hockenheim-Ring	2900	■ PD100 D/ RD200 D ■ S100 K/ S200 K/ Brickslot	2002
A1-Ring Austria	400/50	■ N100 K m. cast iron Kl.C ■ S150–200 K	1996–2001
Circuit Paul Ricard, Le Castellet, Frankreich		■ S100 K, ■ RD200 D	2001 2005
Shanghai, China	10.000	■ S100 K, S200 K, SR200 S	2003/2004
Circuit de Catalunya	800	■ PD100	2007
Monza Italy	div.	■ RD200	2007
Race track Bruenn	1500	■ RD200	2007
Abu Dhabi		■ Light liquid separators	2009
Delhi	13.000	■ S100, S150, S200, LLS	2011
Malaysia Sepang	785	■ S100, S150, S200, LLS	2011
Melbourne Albert Park	600	■ S200 K	2011
Austin, Texas	13.000	■ S100–200 K, Qmax F1, LLS	2012
Sochi, Russia	10.000	■ PD100 V, S300, V150 Brickslot	2013
Sao Paulo, Brazil		■ RD200 V	2013
Mexico	Full track	■ PD100 V, S150 K, S200 K	2015
Mugello Test track Italy		■ S100 with special grates	2015
Bikernieki Latvia	500	■ PD100 V/ PD150 V	2015
Kyalami South Africa	300	■ PD100 V	2015
Sokol Kazachstan	Full track	■ PD100 V	2017



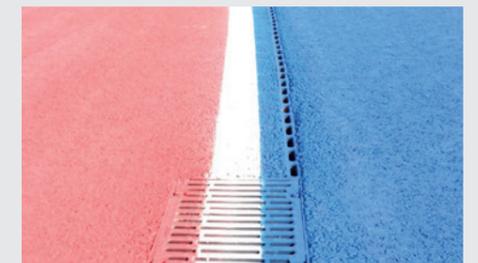
Robust: ACO DRAIN® Monoblock



Discrete: ACO DRAIN® Brickslot



Easy to handle: ACO DRAIN® S range



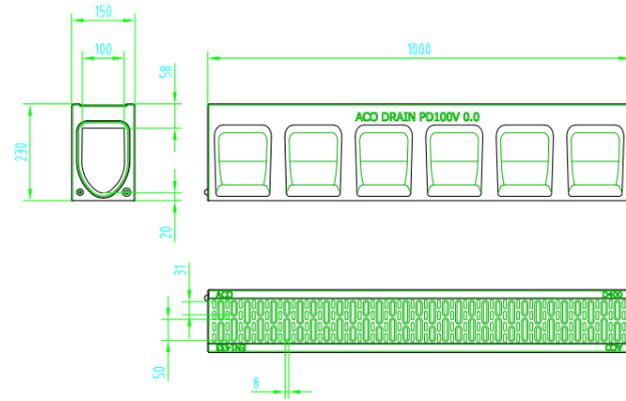
High capacity: ACO DRAIN® Qmax



ACO DRAIN® Monoblock

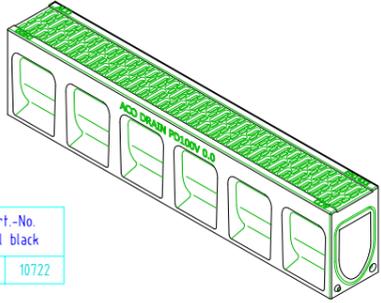
The Monolith

ACO DRAIN® Monoblock PD 100 V channel Type D

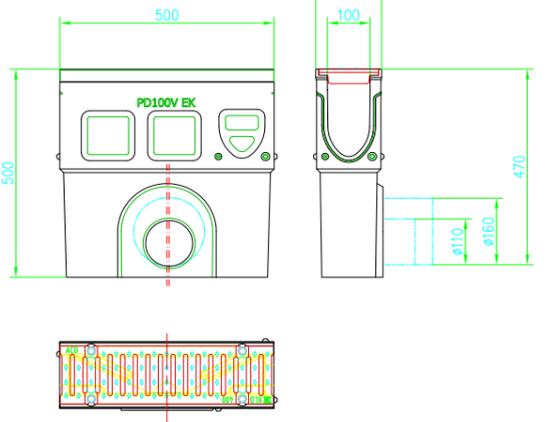


Cross section: 132cm²
Intake area: 202cm²/m

Load class	Type	Part-No. natural black
D 4.00	0.0	10832 10722



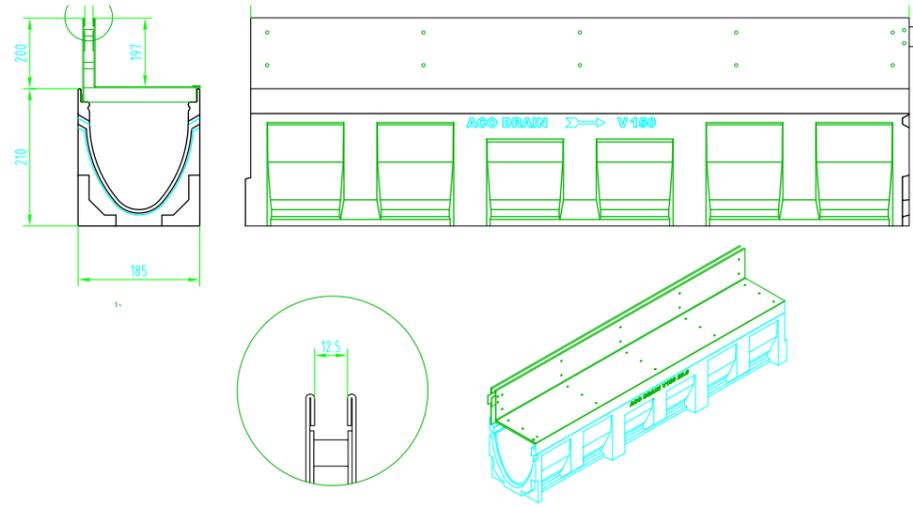
ACO DRAIN® Monoblock PD 100 V sump unit



ACO DRAIN® Brickslot

The Slimline

ACO DRAIN® Multiline V150 with side slot frame

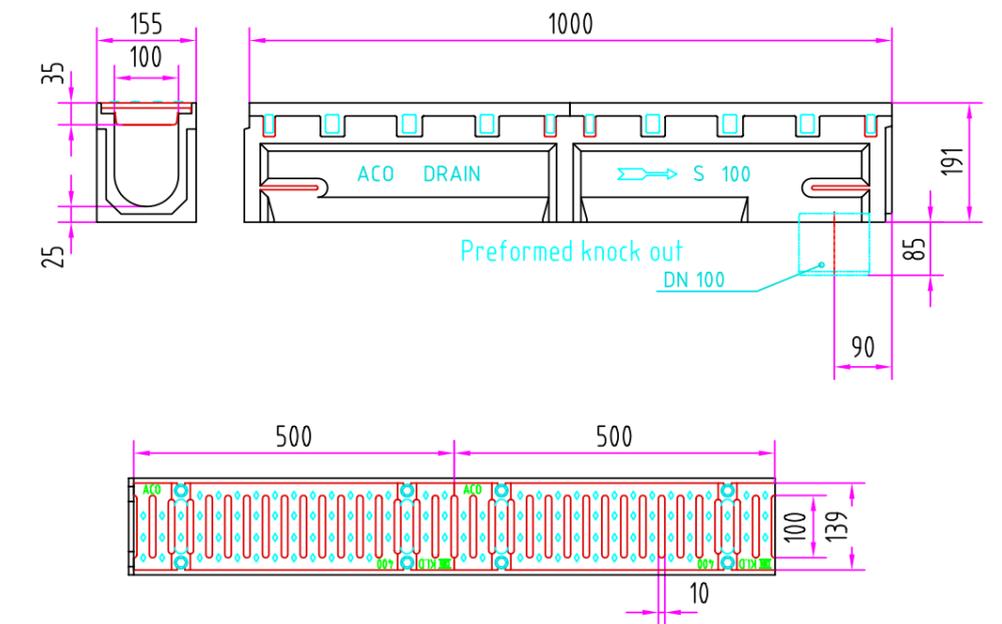




ACO DRAIN® S100

The Strong One

ACO DRAIN® S100

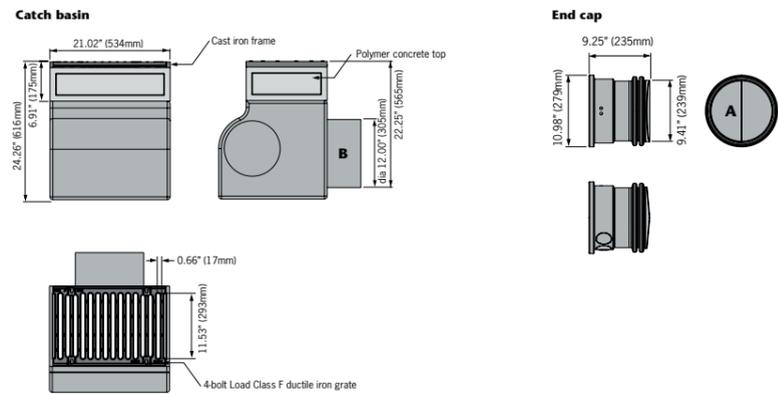
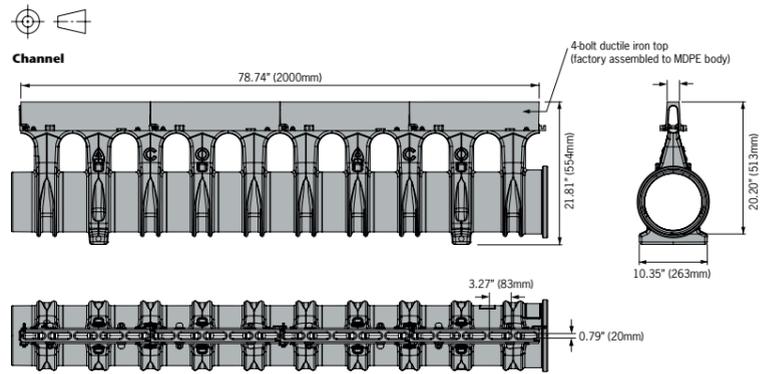




ACO DRAIN® Qmax

The Storage

ACO DRAIN® Qmax 225 F1 IronTop



Your Questions – our Answer:

The ACO System Chain

The ACO system chain supports you at every stage of drainage, rainwater management and treatment planning.



The ACO system chain creates drainage solutions for the environmental conditions of tomorrow

How does surface water management and water protection begin?



collect: Collect and hold
The surface water or liquids to be treated pass from the surface into the drainage system, quickly and as completely as possible. This part of the ACO system chain ensures protection, safety and convenience for the people, buildings and traffic routes in the direct surroundings.

- ACO surface water drainage**
- Drainage channels
 - Road and yard drains
 - Gully tops
 - Manhole covers

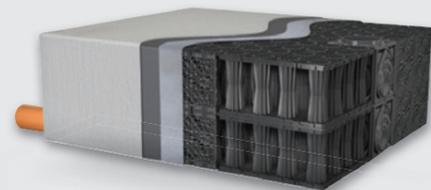
How to achieve the right water quality?



clean: Pretreat and treat
The surface water or collected liquids are treated by integrated physical, chemical or biological methods so that – as a minimum requirement – they can be fed into the public sewers. This part of the ACO system chain establishes the prerequisite for recycling and sustainable use.

- ACO cleaning systems**
- Separators
 - Sedimentation and filtration systems

How to reduce surface runoff to a natural level?



hold: Keep out and retain
Stores, barriers and valves ensure that surface water or the liquids to be treated stay within the drainage system and can be conveyed there in a controlled way. This part of the ACO system chain increases protection and safety for extreme requirements, e.g. in case of heavy rainfalls, flooding or in handling critical liquids.

- 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?



release: Pump, discharge and reuse
Pumps, lifting plants and pipe systems transfer the collected, treated and controlled water to downstream systems and circuits. This part of the ACO system chain brings the collected and treated water to downstream systems in a controlled way for further use or returns it to the natural water cycle.

- ACO control systems**
- Flow control systems
 - Pump shafts



- ACO at a glance**
- 5,400 employees in more than 44 countries (Europe, America, Asia, Australia, Africa)
 - 35 production sites in 18 countries
 - Sales 2019: Euro 900 million

www.aco.com

The worldwide ACO Group. A strong family you can build on.

The ACO Group is one of the global market leaders in the drainage technology sector. Climate change challenges us to come up with innovative solutions in response to new environmental influences. ACO adopts an integrated approach and focuses on professional drainage, efficient cleaning and the controlled drainage or reuse of water. The company's products comprise drainage channels and gullies, oil and grease separating systems, back flow systems and pumps as well as pressurised watertight basement and cellar windows and light shafts.

The family company, which is based in Rendsburg/Büdeltsdorf, was founded on the grounds of the Carlshütte, the first industrial company in Schleswig-Holstein, in 1946. The ACO Group's innovation capability is the result of intensive research and development and expertise in the processing of polymer concrete, plastic, cast iron, stainless steel and reinforced concrete.

Every ACO product supports
the ACO system chain



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- Drainage channels
 - Road and yard drains
 - Gully tops
 - Manhole covers
 - Rainwater treatment
 - Infiltration and attenuation
 - Pump shafts
 - Flow control systems
 - Tree protection
 - Amphibian protection
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ACO. creating
the future of drainage

