

Garden & Landscaping



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Design of green areas and pedestrian zones is an integral part of modern architecture and is crucial not only for the aesthetic appearance of the project but also for the comfort and wellbeing of the inhabitants.

As the meeting point between architecture and nature – landscaping faces the challenges of providing at the same time sustainable protection of the environment and, protection and design of the surface, comfort and safety.



Surface sealing

Urban sprawl and the construction of paved areas mean less and less natural ground drainage. This can mean bigger and more expensive water treatment systems to deal with the water flowing into sewers. A sustainable solution is to ensure the large-scale seepage of rainwater back into the ground. Modern regulations are counteracting the sealing of surfaces by stipulating building restrictions and regulations limiting surface sealing.



Functional requirements

Designing a garden, park or promenade is about balancing between creative and constructive challenges of contemporary landscape architecture. On one hand it is important to design a surface which is comfortable and safe for pedestrians or an occurring traffic. On the other – it is vital for the plants in the area to be provided with the right environment and protected from damaging impact.



Aesthetics appearance

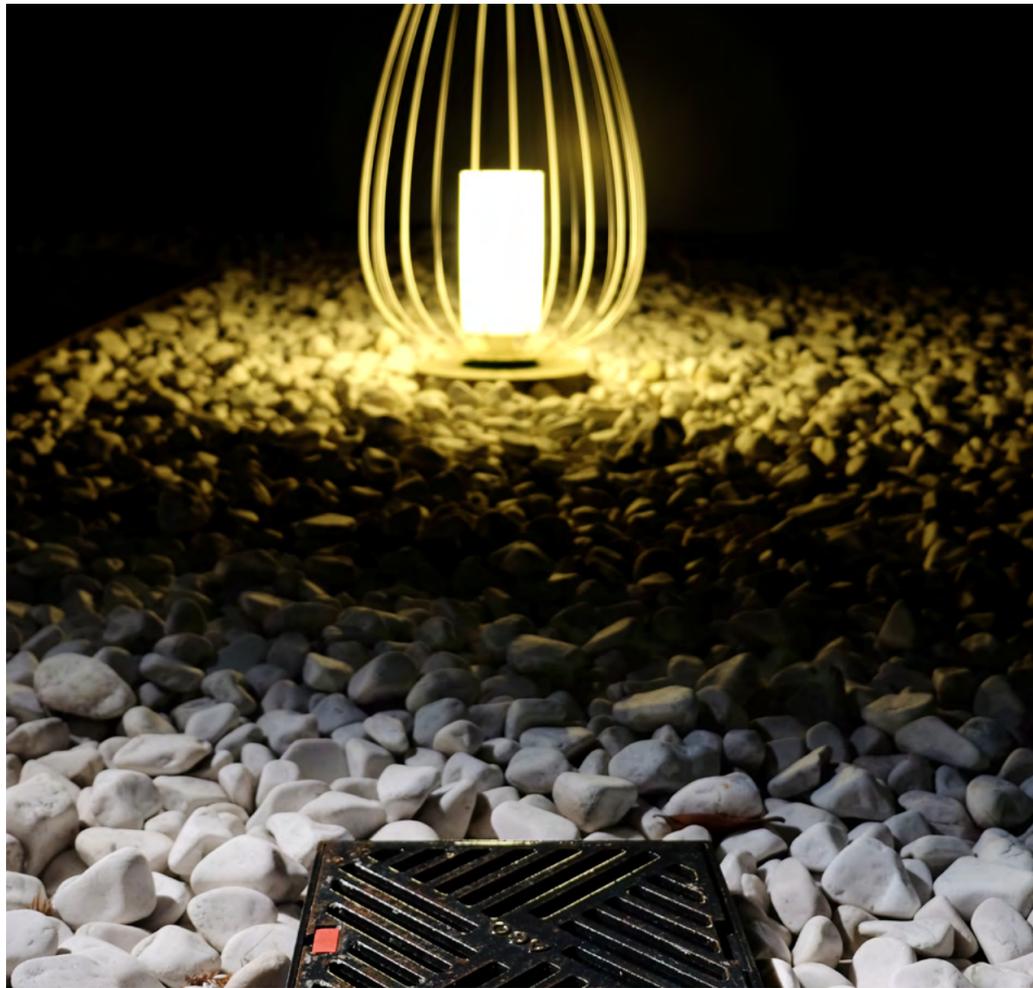
Green areas represent an absolutely vital part of our existence. Their integrating into construction projects is significant for our comfort and well-being. Modern landscaping systems are protecting natural environment and at the same time creating visually pleasing designs in correspondence with architectural surfaces.



European norms and regulations

- EN 1433 - Drainage channels for vehicular and pedestrian areas
- EN 124 - Gully tops and manhole tops for vehicular and pedestrian areas
- EN 752 - Drain and sewer systems outside buildings





Solutions for the interface between architecture and nature



ACO's range of garden and landscaping systems help architects and landscape planners to create an attractive and sustainable water management solution which provides optimal functionality of the surface and comfort for visitors.

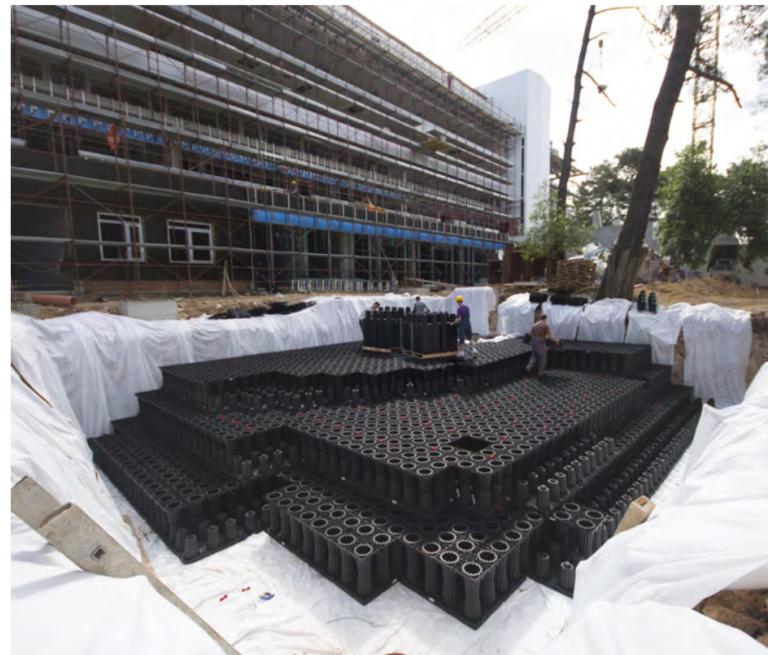
Tailored to the demands of the specific projects our products have finish options that complement and enhance the aesthetic qualities of any property. The modern and functional range provides the most complete and stylish surface water management offering for driveways, pedestrian and landscaped areas. The range has been manufactured to the highest quality standards, ensuring long life and service within and around your hotel landscape.

Besides a comprehensive range of drainage solutions, the range includes a variety of products that allow planners to comply with modern regulations and trends for sustainable design and preserving natural surfaces that allow water infiltration back to the ground.

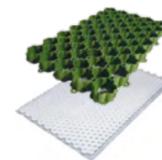
ACO's ground stabilization systems are ideal for use in driveways and paths, where a natural grass or decorative gravel finish are required to complement the landscape, whilst also reducing the risk of potholes, rutting or grass damage and at the same time provide solid and even surface which is drivable and suitable for pedestrians.

The ACO Stormbrixx infiltration systems provide even further advantages. It is an optimal solutions for projects where sewer system is missing or limited, providing options for retention or infiltration of rain water. Its high void ratio reduces the cost associated with traditional soak ways and enables compliance with current building regulations concerning rainwater runoff and sealed surfaces.

The range is completed by high-quality access and manhole covers, as well as cast iron tree protection systems.



ACO System solutions for garden & landscaping



ACO Grass&Gravel Grid



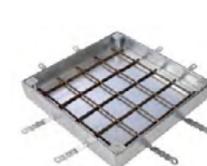
ACO Stormbrixx SD



ACO Tree Grills



ACO Manhole Covers



ACO Uniface covers



ACO Gully



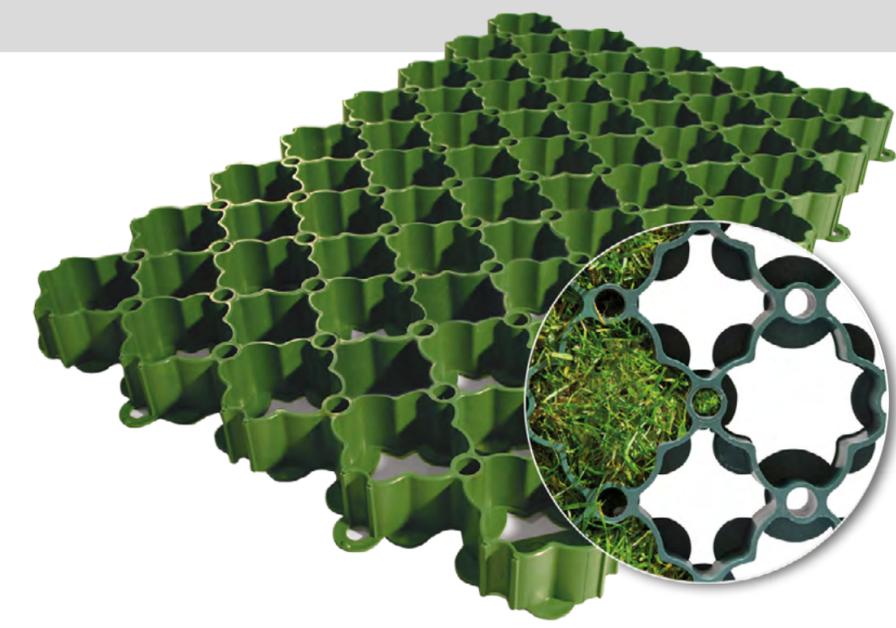
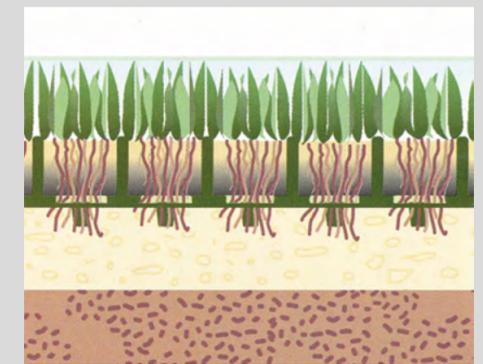
ACO Grass Grid- pro nature

Ground stabilisations system

Product overview

Green areas are vital for environmental protection. The unnecessary sealing of areas exposed to minor traffic destroys valuable green space. ACO Grass Grid is made from plastic, and ensures free rainwater seepage in parking lots, yard driveways, terraces, walkways, storage spaces, emergency routes and river bank reinforcements. These areas will remain green, yet are still load-bearing. Through the use of recycled materials, ACO promotes environmental protection. Surface drainage systems such as ACO Self® or ACO DRAIN® can be used when sealed surfaces are required to aid area drainage. ACO Grass Grid is lightweight for easy transport and handling, and simply snaps together for fast installation. While regionally varying, many building regulations specify a certain amount of "green" spaces. ACO Grass Grid allows vehicular use of these areas.

- Offers unimpeded flow to surface water
- Manufactured from 100% green recycled polyethylene.
- Product design ensures easy handling and installation
- Tiles interlock with clip-together fixings
- Coverage: 4.42 tiles per square metre
- Tiles can be easily cut to shape for irregular edging
- Strong, robust system certified to 250 tones per square metre





ACO Gravel Grid pro

Ground stabilisations system

Product overview

The honeycomb structure of the gravel stabilisation ensures that stones stay where they belong. They can no longer move left or right. This maintains a smooth surface with no ridges, troughs or holes. The ACO Gravel Stabilisation can be filled with high-grade chippings or ornamental gravel to create a customised surface.

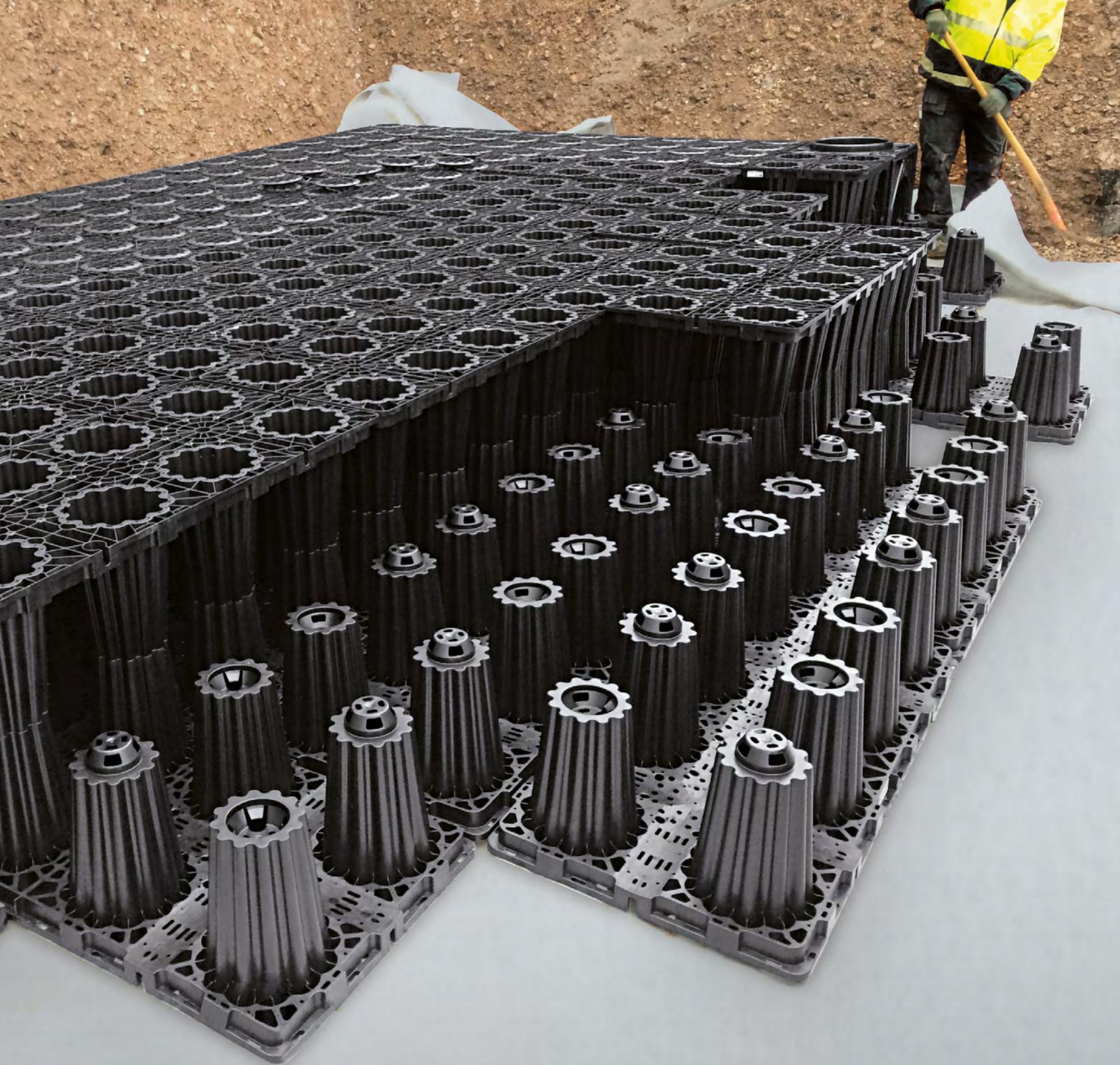
Laying a water-permeable geotextile beneath the gravel stabilisation improves drainage of the surface. This saves having to pay municipal surface drainage fees for sealed surfaces, and prevents the formation of puddles.

Laying is very fast and easy because the honeycomb mats are laid loose next to one another. The ACO Gravel Stabilisation is perfect for municipal landscaping (e.g. in parks and

cemeteries), on garden paths and patios, yards, car parking areas, driveways and access routes, as well as roofs. The bendable ACO Edging is the ideal accessory for gravel stabilisation to create permanent attractive edges to lawns, flower beds, paths/paved surfaces and patios.



Border profiles
for perfect transition between surfaces



Roof Terrace & Facade
 Kitchen
 Bathroom
 Entrance & Lobby
 Spa & Pool
 Basement
 Parking
 Garden & Landscaping

ACO Stormbrixx SD

Modular infiltration system

Product overview

ACO Stormbrixx is a modular infiltration system made from synthetic materials, which on the one hand provides storage of water from storm water and on the other hand is used to provide infiltration of the storm water. The basis of the system are the building blocks which are laid in bonded patterns using an intelligent snap lock system, and give the overall system its structural rigidity.

The modular ACO Stormbrixx infiltration system reduces transport costs and therefore more than halves CO2 consumption and the storage space required in storerooms and on the construction site compared to other systems.

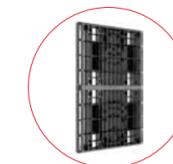
- Height of 1 layer: 914 mm
- Basic elements/m³: 3
- Volume/basic element: 319 l
- Storage coefficient: 97 %
- Min. cover depth: 0.8 m
- Max. cover depth: 2.0 m
- Tested by MFPA Leipzig



Recyclable polypropylene material provides a robust and corrosion-resistant basis for a long-lasting infiltration system. The basic elements form a loadable structure.



Basic elements can be cut in half to allow integration into the overall system.



Side panel perimeters for the entire system offer a sound base for laying the geotextile wrapper.



The pillars are also filled with storm water. Small openings at the base of the pillars optimise water treatment in the product.

Thanks to the open structure of ACO Stormbrixx, inspection cameras and cleaning devices can have free passage through the system.

FEEL SAFE WITH US
50 YEARS



ACO Stormbrixx installation video



ACO Wotan & ACO Standart

Tree protection grills

Product overview

With the tree protection systems WOTAN and Standard ACO fulfills all technical requirements and offers optimal security in the living area of trees in urban areas. Healthy green and good looks: both objectives are optimally achieved with the ACO tree protection systems. The protection grates protect the roots from compression. An adequate oxygen supply as well as ventilation of the root area is fully ensured. Through different design variants or by the installation of ground lights in the tree guard the freedom of design has no limits.

- Different designs
- High variability in shape and size
- Sizes over 4.0 m possible
- Self-supporting without substructure
- Low construction height (6 cm)
- Inner diameter adaptable after the trunk circumference of the tree
- Load capacity up to 50 kN, SLW 30
- Openings for ACO light point possible
- Tree guards available



ACO Tree grill WOTAN
 self-supporting without substructure



ACO Tree grill Standart
 self-supporting with steel substructure





ACO Uniface cover

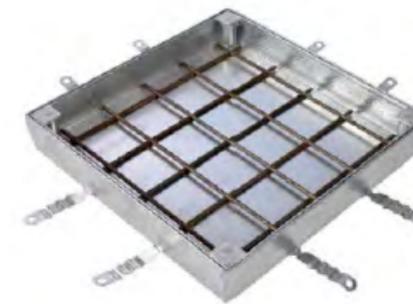
Outdoor access covers

Product overview

ACO access covers are a range of high quality access covers which, whilst providing quick and easy access to underground services, enable decorative floor finishes to be maintained with minimal interference. ACO Access Covers are innovative and made of high quality materials. Our complete range of covers is fully certified according to European standards and meets all load, safety and functional requirements.

- Type tested and certified according to
- EN 1253-4.
- Tested with space for tiles 15 mm
- (competitors covers tested completely filled with concrete)
- Bolt locked – child safety
- Corrosion resistant
- Small corner parts
- Secure installation – good connection with concrete (profiled frame or anchors)
- Discreet product after installation
- Easy tool for opening and manipulation
- Water-tight and odour-tight

ACO Uniface Stainless Steel



ACO Uniface Alluminium





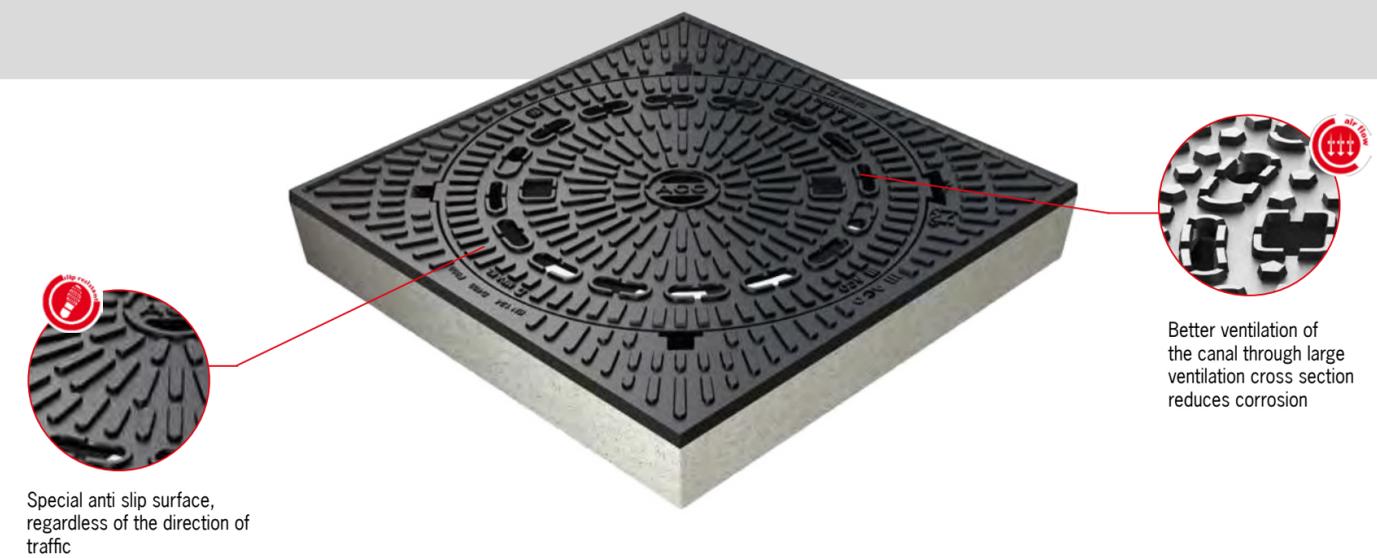
Roof Terrace & Facade
 Kitchen
 Bathroom
 Entrance & Lobby
 Spa & Pool
 Basement
 Parking
 Garden & Landscaping

ACO Multitop Manhole covers

Product overview

The innovative ACO Multitop system is developed to comply with the modern challenges of drivable areas. The intelligent structure of the components allows the distribution of the dynamic load from the traffic, which guarantees that the cover remains at the same level as the road surface. The flat surface of the installation guarantees safety and comfort for vehicles and passengers.

- Durable and cost-effective solution, 10 year guarantee
- Flat surface – safety and comfort for vehicles and passengers
- Secret bolt locking against vandalism
- Soundproofing sealing in the frame
- Anti slip surface of the cover
- Inscription of a logo on the cover surface



Special anti slip surface, regardless of the direction of traffic

Better ventilation of the canal through large ventilation cross section reduces corrosion



ACO Gully

Point drainage

Product overview

ACO Gully offers point drainage of external areas. The solid cast iron grating allows pedestrian and automotive traffic, as well as reliable locking. This system can be installed in a few steps and meets the highest requirements in terms of processing and design. The cover can only be opened with the aid of a tool and is ideal for use in public areas. A filter bag is available for connection to a pipe infiltration so the water is purified and led into the infiltration.

- Load class B 125 DIN EN 124
- Vandalism- and theft-proof due to the screwless locking Pointlock
- Extremely low component weight compared to conventional concrete products
- Optionally with cast iron grating (EN-GJS) or mesh grating (mesh size: 32 x 10) with integrated, screw-less Pointlock locking system
- With odor trap and bucket made of plastic



Gully made of polymer concrete with cast iron grating and frame (EN-GJS)



Gully made of polymer concrete with mesh grating Maschenrost (galvanized steel MW 32x10 mm) cast iron frame



Top element made of polymer concrete for additional height adjustment, DN/OD 110 pipe outlet connection



Polymer concrete compensating element for adjusting the height of the surface covering