

ACO Solutions for Food & Beverage

Industrial Buildings



ACO. we care for water

ACO is a Water-Tech company that protects water. Building on our global drainage expertise that protects people from water, we increasingly see our mission as also protecting water from people.

With the ACO WaterCycle, ACO provides systems that collect and channel, clean, retain and ultimately reuse water. In this way, ACO contributes to the preservation of clean groundwater as a vital resource, and makes a contribution to tomorrow's world. In its Agenda 2030, the UN global community set the improvement of water quality as one of 17 sustainable development goals.

Intelligent drainage systems from ACO increasingly use smart technology to ensure that rainwater and wastewater are drained, or temporarily stored. With innovative separation and filter technology, we prevent water contamination by pollutants such as fat and grease, fuels, heavy metals and microplastics.

Today, ACO goes one step further: we accept the challenge of reusing water, and thus establishing a resource-saving cycle. For all products and systems, ACO attaches great importance to durability, reusability and a low carbon footprint. The pursuit of sustainability is an ongoing process that we strive to meet every day.

The ACO Group is a global family business that is one of the world market leaders in the Water-Tech segment. Founded in Schleswig-Holstein in 1946, it operates as a transnational network in over 50 countries. Worldwide, ACO is characterised by a high level of decentralised ownership, and explicit regional market proximity.

www.aco.com



Holder
Iver and Hans-Julius Ahlmann



Headquarters of the ACO Group
in Rendsburg/Büdeltsdorf



5.300

employees in more than
50 countries (Europe, North
and South America, Asia,
Australia, Africa)

1,15 Billion

Euro Sales in 2022

40

production sites
in 20 countries



ACO Academy
for practical training

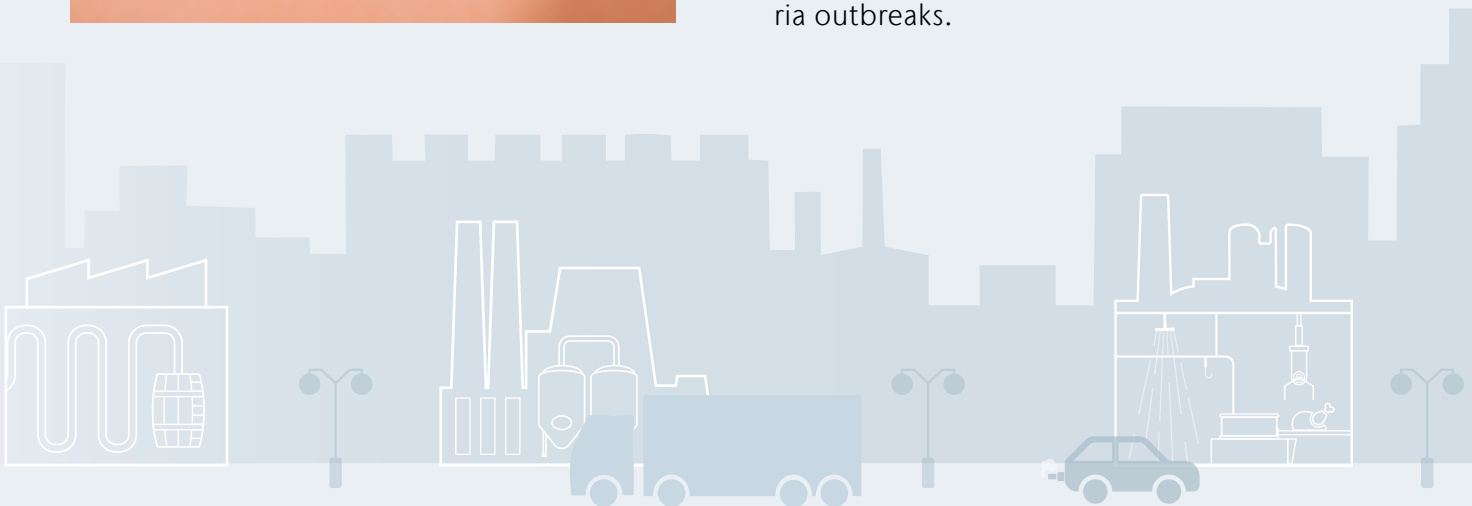
Hygiene**First**



Since decade ago, HygieneFirst is a definition of uncompromising hygienic performance. Hygienic drainage is designed and manufactured to the strictest hygienic principles defined by industry leaders to protect our communities.



ACO is proud pioneer in leveraging F&B standard and therefore protecting our customers' business continuity from unforeseen consequences caused by bacteria outbreaks.





Today's world keeps changing, setting ourselves new challenges. Growing population and increasing water scarcity has become a top concerns of F&B industry, being challenged by authorities, communities and economical factors to protect our most valuable resource - water. That all while maintaining the high level of hygienic standard. It is time to expand our mission of HygieneFirst even further to reflect other issues relevant to present time.

ACO is a proud member of EHEDG, supporting the development of guidelines with its expertise in hygienically designed drainage and water management systems. ACO participates on development of following guidelines: Doc. 44: Hygienic Design Principles for Food Factories, Doc. 28_ Safe and Hygienic Treatment, Storage and Distribution of Water in Food and Beverage Factories



ACO WaterCycle for Food

The ACO WaterCycle provides integrated water management solutions to meet the current and future needs of the Food & Beverage Industry.

In a world where food can be produced almost anywhere, it is vitally important that this food is processed in an environment which is 100% safe. Therefore it is essential that every facility where food is processed in any way is equipped by more complex and sophisticated drainage solution.

ACO achieves this by harnessing the power of connected water systems and embracing a holistic approach towards the challenges of water management. Our integrated system solutions address optimal food safety, people and plant protection and water preservation concerns.

Every ACO product plays an important role within the ACO optimal system chain, thereby safely controlling the water on its journey as it passes along the chain to ensure that it can be hygienically, economically and ecologically handled in the most viable way.



Beverages



We recognize the importance of efficient water processing in the beverage industry. Our high-capacity drainage solutions, robust gratings, and comprehensive system assessments are designed to meet the unique demands of beverages.

Demands:

- Sufficient drainage capacity
- Cleanability
- Silt baskets capacity

High capacity drainage portfolio

Invisible, efficient, practical



Wineries



We are committed to elevating your wineries water management, ensuring that your wines are produced under the best conditions possible. Partner with us for efficient, hygienic, and aesthetically pleasing water management solutions that will enhance your wineries success for years to come.

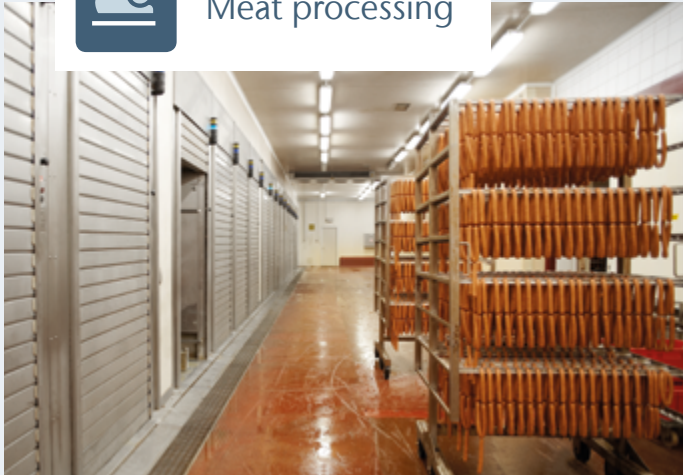
Demands:

- Cleanability of slot channels

& Beverage Industry



Meat processing



We recognize the diversity of meat production facilities and their distinct water management needs. Our commitment extends to continuous innovation, resulting in bespoke drainage accessories catering specifically to meat producers.

Demands:

- Cleanability of slot channels
- Drainage capacity
- Silt baskets capacity
- Antislip floor surface
- Fat separation



Dairy processing

Fruit and vegetable processing demand precision and reliability in water management systems. Each area's wastewater composition varies, requiring adaptable solutions. ACO's innovations excel by efficiently managing debris and waste, safeguarding your processes.

Demands:

- Drainage capacity
- Silt baskets capacity
- Sediments separation and release



Fruit & vegetables processing

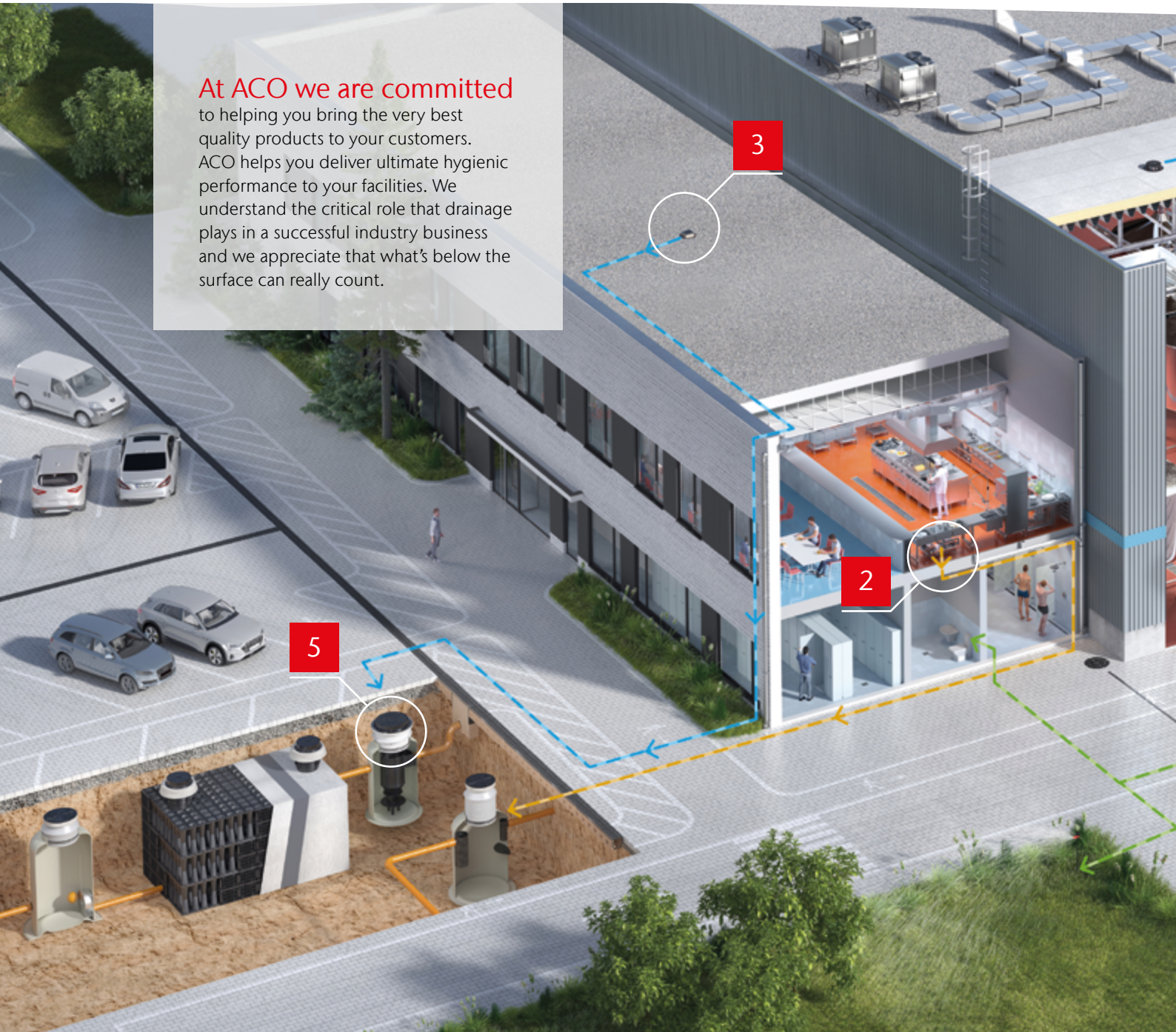
ACO specialized drainage solutions for dairy environments ensure optimal flow, preventing clogs and efficiently handling waste by-products. With ACO, your dairy processing operations benefit from a commitment to precision and hygiene, ensuring seamless processes and product integrity.



ACO WaterCycle

At ACO we are committed

to helping you bring the very best quality products to your customers. ACO helps you deliver ultimate hygienic performance to your facilities. We understand the critical role that drainage plays in a successful industry business and we appreciate that what's below the surface can really count.



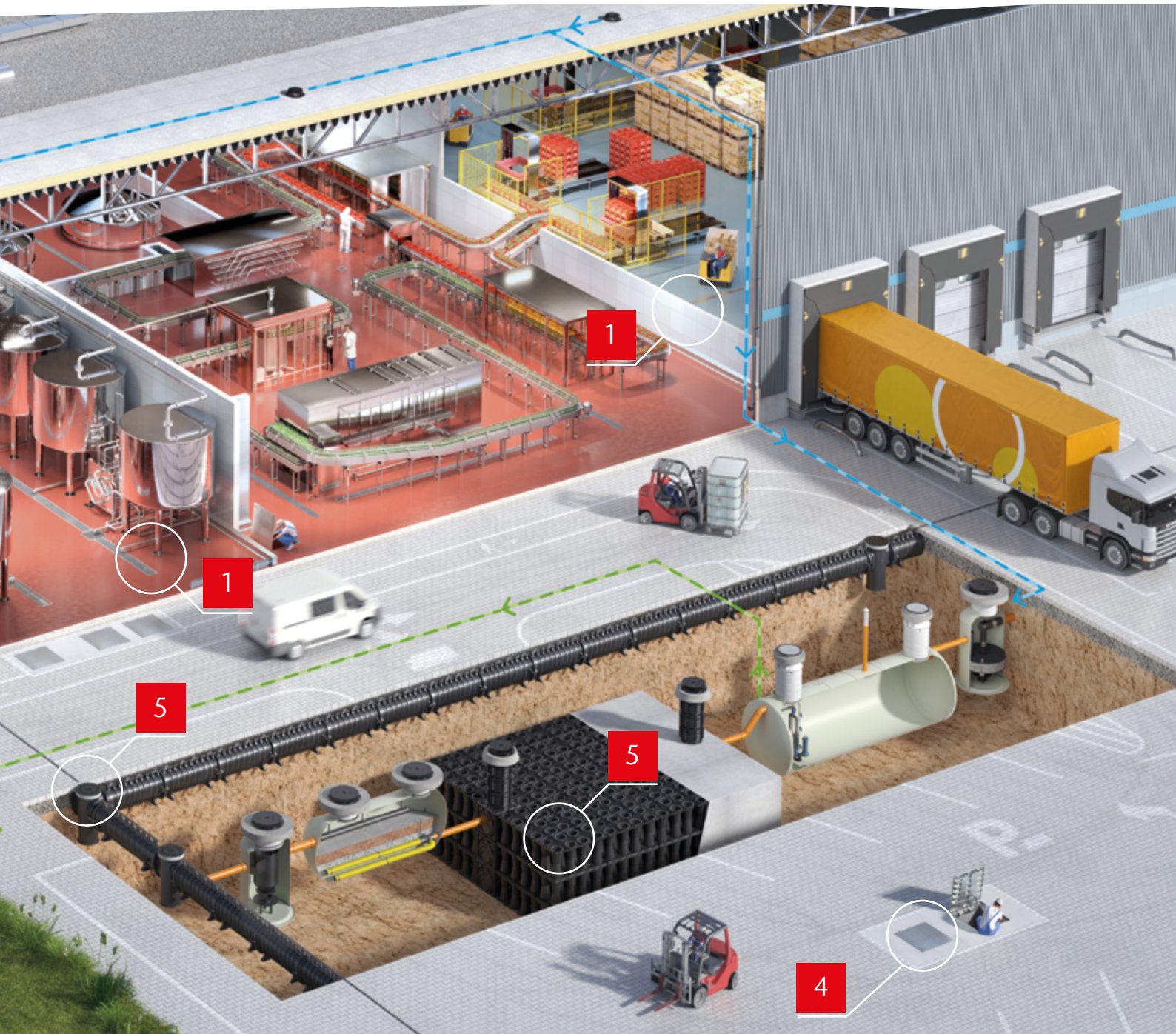
1 Hygienic floor drainage

Drainage systems are a particularly important niche for the persistence of listeria and within food production can become a source of food contamination. ACO hygienic drainage fulfills the strongest hygienic requirements and applies relevant hygienic design principles reserved for food processing equipment.

2 Grease management

ACO offers the most comprehensive range of grease separation technology on the market. Our products come in a wide range of sizes and our range includes both free-standing solutions and those which are required for below-ground applications. This means we can provide commercial kitchen operators with a grease separation solution that perfectly meets their requirements regardless of the amount of waste water being produced.

protects your brand



3 Hygienic roof drainage

Innovative hygienic stainless steel roof drainage system – a breakthrough solution designed to elevate both the functionality and sustainability of your buildings. With a keen focus on pest control, fire resistance, and efficient stormwater management, our system is engineered to adhere to the highest quality standards.

4 Access covers

Covers provide quick, easy and safe access to underground services and enable any floor finishes to be maintained with minimal interference.

5 Stormwater management

From urban areas characterized by impervious surfaces to industrial sites, the importance of skilfully collecting, cleaning, holding and reusing stormwater can not be overstated. Our priority is to assist in designing, producing, and delivering reliable solutions that meet customer requirements and provide support at every project stage.

ACO Services

Functional waste water management means healthy business

Do you want to have a perfectly functioning drainage or waste water system and save overall costs?

We are a reliable partner on the market, which not only produces drainage and separation solutions, but also design, plan or is able to help with welding and installation.

Our team with extensive experience in the field of hygiene, industrial food and beverage preparation is available to support you.

ACO Drainage System Assessment

The DSA identifies issues of of existing:

- Floor drainage
- Floor
- Production environment
- Roof drainage
- Roofing
- Stormwater management



Describes impact of identified issues on production:

- Hygiene
- Safety (employee health and safety, food safety)
- Operational continuity

ACO Design Consultancy

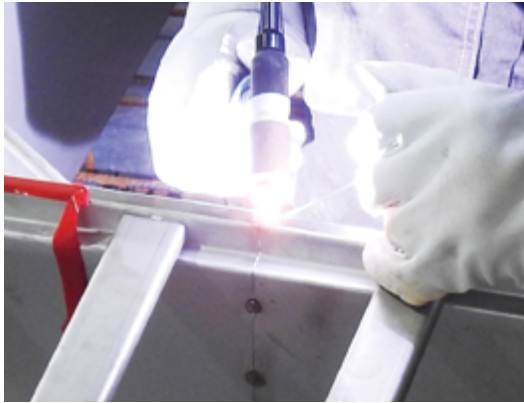


We can support you with revision of project documentation and drainage layout before new facility will be built. This supports:

- sufficient retention capacity
- water flow over proper distances
- properly sized drainage layout (cost saving)
- layout that enables inspection and cleaning of drainage

ACO On-site welding and installation

In addition to our products and services, ACO offers additional on-site supervision of installation and welding to our customers. With over a decade of experience, ACO offers full-service support for our products, staffed by licensed and certified teams, equipped with modern equipment.



Benefits:

- ACO products are installed correctly
- Unlimited shelf life connection of ACO drainage
- A watertight connection with no risk of a damaged or improperly installed rubber gasket (sealing).
- Ultimate hygienic performance of a whole ACO drainage system

ACO Installation supervision



Many issues can occur on a construction site e.g.:

- Products damaged during transportation
- Products improperly assembled and installed.

Benefits:

- Our team will make sure, everything is installed correctly or we can train construction teams for that reason.

Benefits of ACO Services

- DSA Helps customers to identify key issues for operations continuity.
- ACO products are installed correctly
- Unlimited shelf life connection of ACO drainage.
- A watertight connection with no risk of a damaged or improperly installed rubber gasket (sealing).
- Ultimate hygienic performance of a entire ACO systems.
- Our team will make sure, everything is installed correctly or we can train construction workers for that reason.

ACO Products



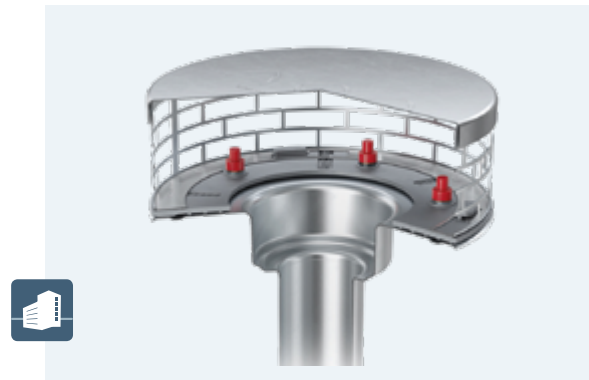
Building Drainage

Floor Drainage



Available in various sizes to cater for sufficient flow rates and construction requirements including shallow construction depths and applications where preventative fire measures are required. ACO hygienic gullies and channels are certified according to EN 1253.

Roof Drainage



Refers to the systematic design and management of rooftop rainwater collection and diversion to ensure the sanitary handling, potential reuse, and safe disposal of rainwater. By integrating components like roof gullies, appropriate roofing materials, and regular maintenance, hygienic roof drainage ensure that water quality is maintained, environmental sustainability is promoted, and potential health or structural issues occurring from improperly managed rooftop rainwater are mitigated.

Pipe System



The stainless steel push-fit pipe system is designed for grey, black and rain water. ACO pipe offers 40+ years product life thanks to its material properties. Easy installation and handling on site is ensured by push-fit assembly system and available cutting tools.

Grease Management



A comprehensive range addresses all size requirements within the EN 1825 specification, with performance at or beyond the standard's requirement. Certified to EN 1825, CE marked.



Surface Water Management



Building Materials

Surface Water Management



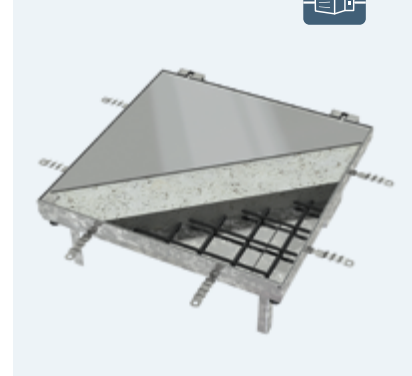
A unique and patented plastic geocellular storm water management system. Designed for surface water infiltration and storage.

External Drainage



Developed to satisfy the demand for a versatile, high capacity slot drainage system for a wide range of applications involving small to large catchment areas to any load class.

Access Covers



Provide quick and easy access to underground services. Enable any floor finishes to be maintained with minimal interference. Available in different load classes. Access covers are water tight, odour tight and certified according to European standards EN 1253-4 and EN 124.

Stormwater Management



With urban areas experiencing rapid growth and climate change impacts intensifying, effective stormwater management has never been more crucial. ACO Stormclean combines four crucial processes – sedimentation, filtration, adsorption, and precipitation – to ensure bound and dissolved pollutant are removed from stormwater.

Light Liquid Separation

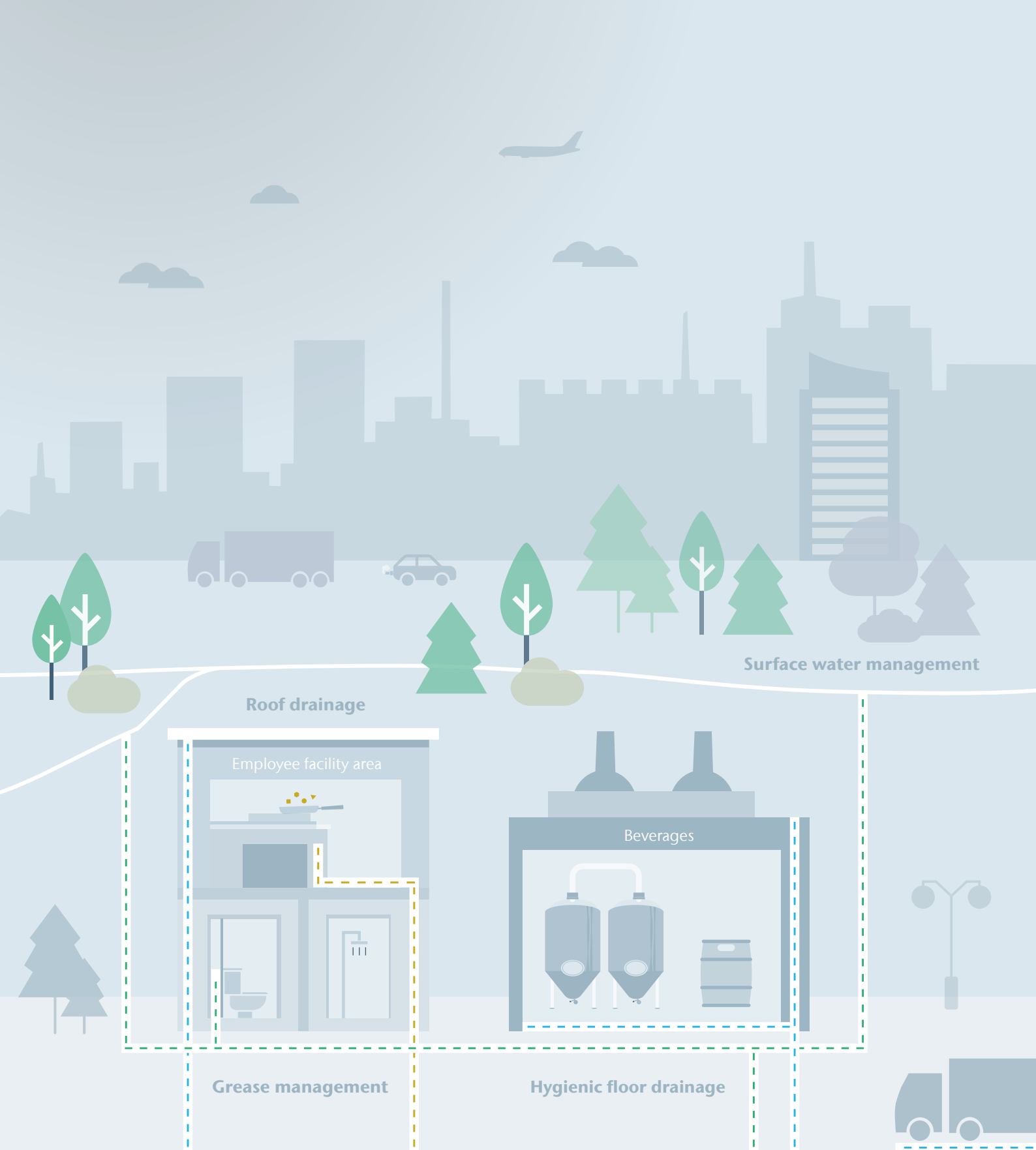


ACO light liquid separators are designed and constructed in compliance with EN 585 standards and undergo rigorous LGA institute laboratory testing. This ensures maximum safety and efficiency during their operations.

External Drainage



The innovative drainage system with unique monocast construction guarantees extremely high levels of safety and stability in all transport surface drainage applications.



ACO. we care for water



Winery

Meat processing

Fruit & Vegetables

External drainage

Access covers

Surface water treatment





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