



# Building Drainage

Product Lines Overview



## The ACO Group

Founded in 1946, the ACO Group is a world leader in drainage technology. A changing industry challenged ACO to react effectively with innovative solutions to new health and environmental conditions. With its integrated approach, ACO provides systems for professional grade, efficient, and hygienic surface water and building drainage.

## ACO in New Zealand

ACO introduced the concept of modular Polymer Concrete surface drainage systems to New Zealand over 25 years ago. Today ACO Limited in New Zealand is a sales and marketing company with access to ACO's global strong manufacturing bases. Established in 2012, ACO uses a variety of materials for its extensive range of surface water drainage, utility enclosure, building drainage and residential products.

## ACO Building Drainage

ACO is committed to designing and producing the best solutions for building drainage. We understand the importance of better utilising one of our planet's most vital resource—water—and are committed to improve its application, collection and reuse.

# ACO WaterCycle

The ACO WaterCycle supports you at every stage of drainage, rainwater management and treatment planning and creates drainage solutions for the environmental conditions of tomorrow.



# HygieneFirst

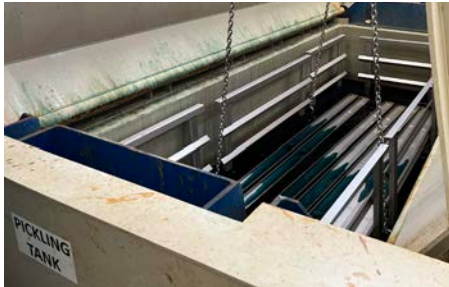
## Stainless Steel Finishing, Pickling, Passivation & Electropolishing Services



Unfinished, raw material vs fully treated material

**Degreasing** - The process of removing oils, grease, and forming fluid that attaches itself to the material during fabrication processes.

**Pickling** - ensures that the imperfections of welding, forming, and machining are removed by etching a layer of oxides off of the surface. This allows passivation to apply to every surface, as the passivation process will not penetrate the oxide layer if pickling is not implemented. The pickling solution consists of nitric and hydrofluoric acids.



**Passivation** - Removes iron from the surface of the steel while producing a thin layer of oxide on the surface of the steel to resist surface corrosion.

A tank of nitric base solution is used to remove the free iron from the surface of the steel and leaves it in the passive state. Using nitric acid alone is only effective on stainless steel and will not work for mild steel.

Unlike the pickling process there is no material being removed from the base material.



**Electropolishing** - Removes a thin layer of material from a metal part, typically stainless steel, or similar alloys.

Electropolishing is performed by creating an electrolytic cell involving a stainless steel object immersed in an acidic bath, passivating, deburring, polishing, and removing material from the surface (typically .00005" of material removed per 10 seconds of run time). This reduces the surface roughness by leveling micro-peaks and valleys which leaves a shiny, smooth, clean surface finish.

Imperfections removed via electropolishing:

- stains
- pitting
- streaks
- erosion
- shadows
- electrical arcing
- irregular patterns
- orange peel effect

## ACO Stainless

Modular Stainless Steel Linear Drainage



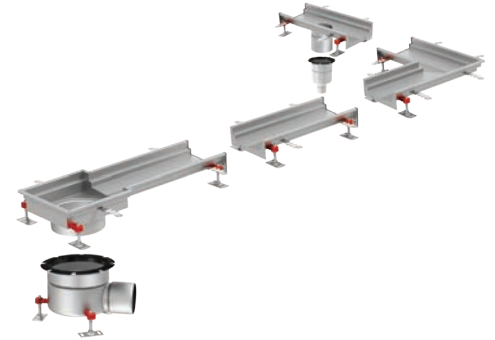


## Versatile Drainage with Corrosion Resistance in Mind

ACO Stainless consists of cost-effective systems for areas where corrosion resistance, hydraulics, and durability are high priority. Stainless steel channels are available in either constant-depth or sloped configurations and can incorporate corners and branches for added functionality.

These systems are available from modular to fully custom designs with either removable grates or a continuous slot. Grates to suit various load requirements and channel bodies to suit multiple floor finishes are also available.

[www.acobd.com/stainless](http://www.acobd.com/stainless)



## ACO BoxDrain

Stainless Steel Box Drains







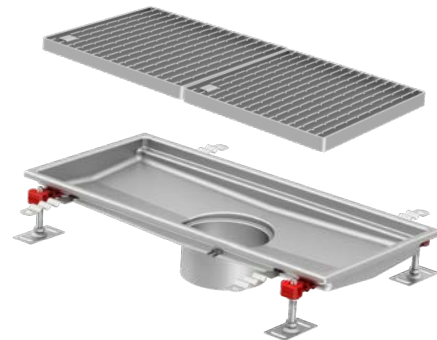
## Stainless Steel Drainage for Commercial Kitchen Applications

ACO BoxDrain units are specifically designed for areas where hygiene is paramount, such as commercial food and beverage preparation areas.

To prevent contamination by harmful bacteria, a range of hygienic stainless steel channels have been designed to meet stringent industry requirements.

Deep drawn bodies ensure complete drainage, thereby eliminating stagnant wastewater, smells, and microbial growth. Designs incorporate large radii in channels to ensure ease of cleaning.

[www.acobd.com/boxdrain](http://www.acobd.com/boxdrain)



# ACO FloorDrain

Stainless Steel Floor Drains





## Simple & Effective Drainage for any Application

ACO FloorDrain includes fixed and adjustable-height floor drain bodies with both vertical and horizontal outlet options available. All products are designed for use in commercial and industrial projects where hygiene, durability, and performance are required.

Options include a choice of stainless steel grates, silt baskets for ease of cleaning, and matching clean outs.

Deep drawn bodies enable full drainability eliminating stagnant wastewater, smells and microbial growth.



## ACO Pipe

Stainless Steel Push-Fit Pipe System





## Complete Set of Stainless Steel Piping for any Configuration

ACO's IAPMO certified grade 316L stainless steel, thin wall, push-fit waste pipes provide a modern metal alternative to PVC/HDPE soil and waste pipework.

The complete range of ACO Pipe is compatible with ACO's stainless steel trench drains, box drains, boxes, and floor drains.

Pickling and passivation processes are applied to all ACO Pipe products for optimum durability and corrosion resistance.



## ACO Kerb

Hygienic Wall Protection





## Sturdy Baseboard Throughout Your Facility

ACO Kerb provides reliable wall protection from impacts caused by machinery or other transport systems and leakage through the wall into other processing areas. Its curved design prevents accumulation of soils and allows easy cleaning, making it suitable for any processing area.

ACO Kerb is available in 2 different materials:

**ACO Kerb PB** is made entirely from polymer concrete composite, which is durable and waterproof.

**ACO Kerb S/S** is made from 1.5 mm thick stainless steel (AISI 316L), which is welded on site to ensure integrity of the entire ACO Kerb system.

[www.acobd.com/kerb](http://www.acobd.com/kerb)



# Python

Automatic Grease Removal Device



**Python™**  
Automatic Grease Removal Device





## Certified, Patented Wastewater Management Solutions

Python Automatic Grease Removal Devices (AGRD) operate without moving parts or chemicals to eliminate fats, oils and grease in wastewater effluent. Its small footprint makes it easy to install in even the smallest kitchen areas, such as dishwashers, pre-rinse sinks, three-compartment sinks, woks, kettles, combi ovens and rotisserie ovens.

The AGRD is made from hygienic grade 304 stainless steel and available in 7 models differing in L/min, height, length, width, height to inlet centre, and height to outlet centre. Python meets and exceeds industry codes and standards including UL, IPC, UPC, IRC, NPC, ASME A112.14.3, ASME A112.14.4, PDI G101, CSA B481.1 and NSF.

[www.askaco.nz/python](http://www.askaco.nz/python)





## Experts in Material Technology

### Manufacturing

**Metals** - ACO uses a variety of metals in its product lines. As a world leader in the manufacture of stainless steel drainage systems, ACO has production facilities with expertise in the working and fabrication of stainless steels for both proprietary product ranges and custom-made items.

**Composites** - ACO is one of the world's foremost producers of polymer concrete, which is a versatile material produced by mixing a variety of mineral fillers with a resin binding agent. The resulting material has many excellent properties. Alternatively, FRP (Fiber Reinforced Plastic) is used by ACO to produce products exposed to harsh environments.

### Design

ACO uses state-of-the-art tools to design products to best fit their purposes. Products are extensively tested to relevant standards to ensure ultimate customer satisfaction.

### Quality

ACO is dedicated to achieving the highest possible standards of quality throughout all aspects of the organization.





# askACO

train | design | support | care



## Train

Information  
and Education

Global expertise with architects, engineers, installers and distributors who value quality.

## Design

Planning  
and Optimization

Experience to lead you towards the most efficient drainage solution for your budget.

## Support

Advice  
and Presence

Experts available to assist you during project planning and implementation stages.

## Care

Inspection  
and Maintenance

After-sales support to ensure that ACO will exceed your standards for years to come.

Have a question? **ask**ACO has the answer!

[www.askaco.nz](http://www.askaco.nz)

ACO. we care for water

**ACO New Zealand**

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