ACO Building Drainage





Engineered SolutionsProduct Catalogue

abdtechnical@aco.co.uk 01462 810431

www.aco.co.uk

ACO Building Drainage

ACO building drainage specialise in the design and manufacture of corrosion resistant drainage systems and products. These are tailored to suit the specific needs of each project, and cover a wide variety of commercial and industrial applications.

Fully engineered by our in-house technical design team, these solutions are designed to eliminate design risk, optimise installation and minimise lifetime ownership costs. Every product in the range is designed to provide exceptional performance, with a high aesthetic finish and durability; whether used internally or externally.

Our team has specialists in design area covering drainage, grease management, pipework solutions and back flow. They also have experience in a wide range of sectors - from healthcare, food and beverage manufacture, sport & leisure, catering and education. In addition they have production knowledge enabling the design and manufacture of engineered solutions to suit the physical and commercial constraints of any project.

As our built environment grows, and related legislation becomes more complex, the support of our technical design team in any project can help to provide complete solution in the knowledge that all relevant criteria has been considered. This technical expertise is backed by ACO Building Drainage's reputation as a division of UK based ACO Technologies, part of the worldwide ACO group.



ACO Building Drainage

Tel: +44(0)1462 810421 Email: abdestimating@aco.co.uk · A complete pricing service to stockists, contractors and clients

ACO Building Drainage **Customer Services Team:**

Tel: +44(0)1462 810411 Email: abdcommercial@aco.co.uk · Product availability, delivery lead times, and all other queries including collections, returns and product / service issues.

ACO Building Drainage Design Services Team:

Tel: +44(0)1462 810431 Email: abdtechnical@aco.co.uk

- · Technical and installation advice.
- Detailed design and 'Value Engineering' advice.
- · Hydraulic calculations and AutoCAD drawings.
- · Advice on the suitability of ACO equivalent products.

ACO Building Drainage Marketing and Media Support

Tel: +44(0)1462 810400 Email: abdmarketing@aco.co.uk · For all product brochures, imagery or merchandising material requests.

ACO System Chain - drainage solutions for tomorrow's environmental conditions



collect:

- Stainless Steel and Galvanised Steel Channels
- Stainless Steel Gullies
- Pipe Systems
- Roof / Balcony Drainage
- Wetroom & Shower Drainage



Grease Management Systems



■ Anti-flood Backflow Protection Systems



release.

Lifting Stations

Office address and contact details:

ACO Building Drainage ACO Business Centre Caxton Road Bedford Bedfordshire MK41 OLF

Tel: +44(0)1462 810400 Email: abdinfo@aco.co.uk

Company Registration No: 1854115 VAT No: GB 650 7977 05

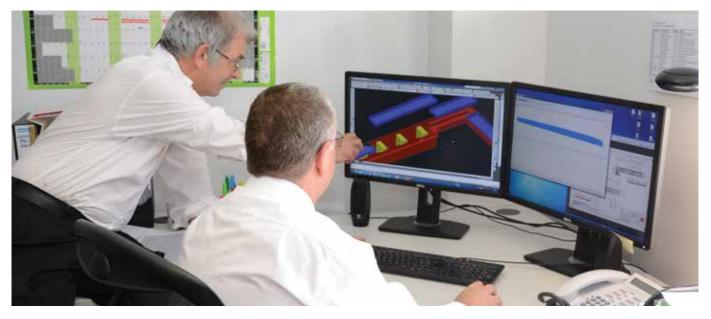
www aco co uk

For quick access to



Design services - Let us help!





ACO Building Drainage specialises in the development of corrosion-resistant drainage systems and products which are tailored to suit the specific needs of projects being undertaken in a wide variety of commercial and industrial applications. Engineered by our in-house technical design team to eliminate design risk, optimise installation and minimise lifetime ownership cost, every product in the range delivers exceptional levels of performance, finish and durability whether specified for use in the internal or external built environment.

Our team designs specialist drainage, grease management and fireproofing systems that provide safe and hygienic solutions across a range of sectors including healthcare, food and drink manufacture, sport and leisure, catering and education. In addition, ACO Building Drainage provides stainless steel decorative tree grills, laser cut curved gratings and wet room drainage systems for use in applications which require the very highest quality of aesthetic finish.

As our built environment and related legislative requirements grow ever more complex, the support of technical design experts who can create bespoke, engineered solutions becomes increasingly important if design, technical performance and financial requirements are to be met. This technical expertise is backed up by ACO Building Drainage's world-class manufacturing facilities and comes with the added reassurance of working with a division of UK-based ACO Technologies, part of the worldwide ACO Group.

Product Contents



ACO AS101 DPC Channel



ACO AS201 DPC Channel



ACO AS301 Box Channel



ACO AS401 Fire Lift



ACO AS501 Easy-clean



ACO AS601 Slot Channel



ACO AS601 Slot Channel with Toolbar



ACO AS701 Upstand



ACO AS801 Micro Channel

Radius Channel

18



ACO AS901 Hi Load

19-22





ACO AS1010 Brickslot Channel ACO AS1050 Discrete Channel



Application



Ideal for swimming pools and wet usage in leisure centres



Suited to internal and external usage in places such as hotels,



Optimal in pharmaceutical

environments



Ideal for industrial workplaces



Suited to food production



Optimal for landscaped areas



Load classes and typical uses according to BS EN 1433:2002



Pedestrian, cycleways and domestic drives



Pedestrian precincts, light vehicles, private car parks



C 250 Parking areas, service stations

(cars) and slow-moving light commercial vehicles Note: The application icons shown above are

generic; used to aid product selection Please contact ACO Building Drainage Technical for further clarification and advice



Gratings







ACO AS101 DPC Channel

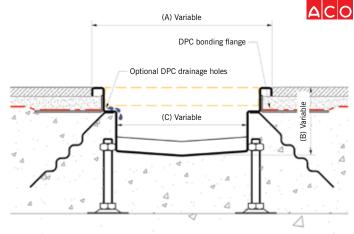


Specification

- Provides flange to seal to secondary DPC
- DPC drainage option available
- Can be modelled hydraulically to confirm flow capacities
- Grades 304 (1.4301) or 316 (1.4404) stainless steel

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)



Floor finishes are indicative Dimensions are all variable to meet your specification





Application











Load Classes







Length Width (A) Depth (B) Bore (C) Load class Grate type For customisable options please call 01462 810431

ACO AS201 Membrane Clamp Channel



Specification

- Provides a mechanical clamp for vinyl flooring
- Accommodates standard grates
- Suitable for suspended floors
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)

(A) Variable Membrane clamp (C) Variable Floor finishes are indicative Dimensions are all variable to meet your specification





Application













Load Classes







Length Width (A) Depth (B) Bore (C) Load class Grate type For customisable options please call 01462 810431



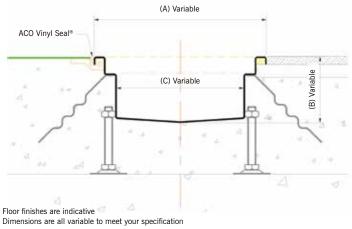


Specification

- Standard channel profile
- Suited to internal and external application
- Standard and high security locking available
- Grades 304 or 316
- Interfaces with ACO vinyl seal

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)







Application











Load Classes

Load Classes







Length Width (A) Depth (B) Bore (C) Load class For customisable options please call 01462 810431

For customisable options

please call 01462 810431

ACO AS401 Fire Lift Channel



Specification

- Up to 25 l/s capacity (2x160mm diameter untrapped outlets)
- Designed and hydraulically modelled to your specifications
- Channel conforms to BS 9999. 2008
- Grades 304 or 316
- Can be designed for carpet or flexible flooring
- Floor structure must accommodate deep channel depth

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)

(A) 250 minimum (C) 192 minimum 120 Floor finishes are indicative Dimensions are all variable 2 No. Ø160 outlets **Application**

Length Min. width (A) Min. depth (B)

Min. Bore (C)

ACO AS501 Easy-clean Channel

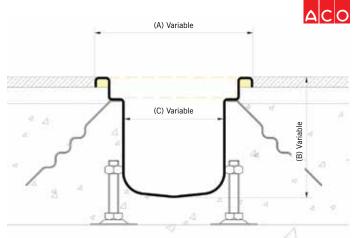


Specification

- Radius base profile
- Minimises debris build up
- Ideal for food processing or anywhere hygiene is a prerequisite
- Grades 304 or 316
- Interfaces with ACO vinyl seal

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)



Floor finishes are indicative Dimensions are all variable to meet your specification





Application











Load Classes







Length Width (A) Depth (B) Bore (C) Load class Grate type For customisable options please call 01462 810431

ACO AS601 Slot Channel

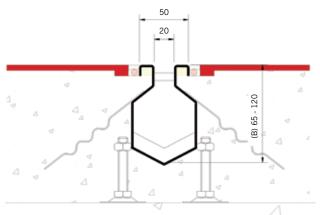


Specification

- Discrete slot channel
- 50mm visible width
- Slot 20mm
- Interfaces with ACO vinyl seal
- Grades 304 or 316

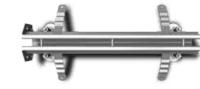
What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)



Floor finishes are indicative Dimensions are all variable to meet your specification





Application











Load Classes





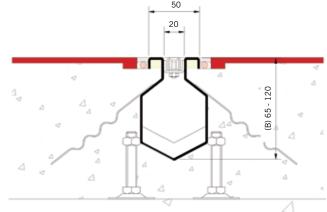


Length Depth (B) For customisable options please call 01462 810431

ACO AS601 Slot Channel with Toe bar







Floor finishes are indicative Dimensions are all variable to meet your specification

Specification

- Toe bar reduces slot to 5mm
- Interfaces with ACO vinyl seal
- Grades 304 or 316
- Low capacity drainage
- No grating required

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)







Load Classes

Application





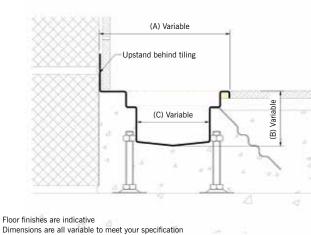


Length Depth (B)

For customisable options please call 01462 810431

ACO AS701 Upstand Channel







- Ideal for areas where a wall tanking is required
- Integrates with tiled walls
- Ideal for public shower areas
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)



















Length Width (A) Depth (B) Load class Grate type For customisable options please call 01462 810431



ACO AS801 Micro Channel

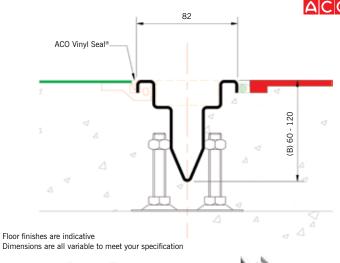


Specification

- 82mm wide discrete channel
- Bespoke grating patterns to suit
- Suited to low flow applications
- V-Profile to assist debris removal
- Interfaces with ACO Vinyl Seal
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)





Load Classes







Length Depth (B) Grate type - (50mm wide) For customisable options please call 01462 810431

ACO AS901 Hi Load Channel



Specification

- Extended grating seat depth and width
- For high load applications up to load class D
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)

(A) Variable - dependant in load class Variable (C) Variable

Floor finishes are indicative Dimensions are all variable to meet your specification



Application













Load Classes





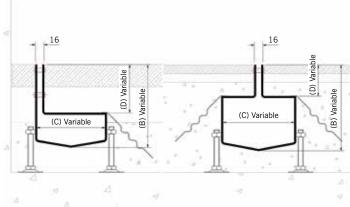


Length Width (A) Depth (B) Load class Grate type For customisable options please call 01462 810431

ACO AS1010 Brickslot Channel







Floor finishes are indicative Dimensions are all variable to meet your specification

Specification

- 10mm wide channel throat visible on surface
- Conventional bore for high capacity
- Heel safe aperture for safety and enhanced aesthetics
- Available in radius version
- Ideal for external prestige applications
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)





Application











Load Classes





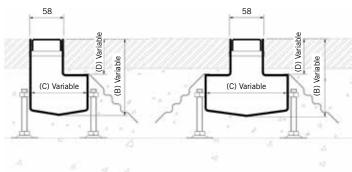


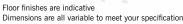
Length Depth (B) Bore (C) Throat D

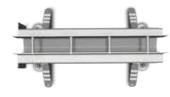
For customisable options please call 01462 810431

ACO AS1050 Discrete Channel



































Length Depth (B) Bore (C) Load class Grate type - 50 wide For customisable options please call 01462 810431

Specification

- 50mm wide channel throat provides cleaning jet access
- Conventional bore for high capacity
- Heel safe gratings for safety and enhanced aesthetics
- Available radius version
- Ideal for external prestige applications
- Grades 304 or 316

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)

ACO Radius Channel





Specification

- Radius is completely customisable to meet your needs
- Flat bottom channels only

What we want to know...

- What the sub-base is and the floor build ups (provide a section ideally)
- Amount of water to be drained/+ area to be drained and rainfall intensity
- Discharging into foul or storm
- Position and number of outlets (provide a plan detail ideally)
- Outlet connection diameter
- Whether any caustic solutions are to be drained (chlorinated water, acids, alkalis etc)

























Length Depth (B) Bore (C) Throat D

For customisable options please call 01462 810431

ACO Gratings Load Class A



- Load class A is the lowest load capacity we provide
- Suitable to be used with pedestrians, cyclists and planted areas
- BS EN 1433 A15
- BS EN 124 A15
- BS EN 1253 H1.5, K3 & L15
- Load capacity up to 1,500kg (15kN)







Intercept



Perforated



Plain Mesh



White Plastic





Ladder

AS101

AS201

AS301

AS401 Heelsafe

Quadrato Intercept ■ White Plastic Heelsafe

Quadrato Intercept ■ White Plastic

Slip Resistant Mesh



Composite



Slotted



Heelsafe



AS701

All gratings suitable

All gratings suitable

- Plain Mesh
 - Slip Resistant Mesh

Ladder

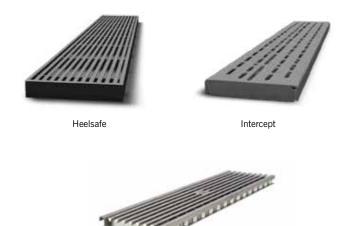




ACO Gratings Load Class B







Heelsafe External

- Load class B is a mid range load class option we provide
- Suitable to be used with car parks, residential driveways & delivery vehicles
- BS EN 1433 B125
- BS EN 124 B125
- BS EN 1253 R50 & M125
- Load capacity up to 12,500kg (125kN=12.5Tons)

AS101

- Heelsafe Intercept
- AS301 Heelsafe Intercept

AS701

- Heelsafe Intercept
- AS1001
- Heelsafe

For more information please call 01462 810431

ACO Gratings Load Class C



- Load class C is the highest load class we provide in the engineered solutions range
- Suitable for use with heavy duty loads, industrial and commercial sites
- BS EN 1433 C250
- BS EN 124 C250
- BS EN 1253 N250
- Load capacity up to 25,000kg (250kN=25Tons)



Plain Mesh

Ladder











Perforated



Composite



Slotted

- Plain Mesh
- Slip Resistant Mesh
- Ladder

AS101

- Perforated Slotted
- Composite (Black)

AS301

- Plain Mesh
- Slip Resistant Mesh
- Perforated Slotted
- Composite (Black)

AS501

- Plain Mesh
- Slip Resistant Mesh
- Ladder

AS701

- Plain Mesh
 - Slip Resistant Mesh
- Ladder
- Perforated Slotted
- Composite (Black)

Ladder grate which can achieve Load Class D

Stainless Steel Explained

Stainless steel is the name given to a wide range of steels which have the characteristics of greatly enhanced corrosion resistance over conventional mild and low alloy steels.

The enhanced corrosion resistance of stainless steel essentially comes from the addition of at least 11% chromium, however most stainless steels commonly used contain around 18% chromium. Other significant alloying elements include nickel and for superior corrosion resistant properties, molybdenum.

For ACO Building Drainage applications, the principal properties of stainless steel may be summarised as follows:

- Durable and corrosion resistant in highly aggressive environments.
- Hygienic, easily cleaned surfaces
- Aesthetically attractive surface finish.
- Good forming and fabrication characteristics.
- Excellent strength and resistance to oxidisation at high temperatures.

All these make stainless steel an obvious first choice material for demanding applications.

Stainless Steel Families

Stainless steel is used across a wide spectrum of engineering applications and this has led to the development of the vast range of different types of stainless steels that are now available.

Austenitic Stainless Steel is the most widely used and encompasses the generic 304 and 316 grades of material. These materials are used in the ACO Building Drainage manufacturing process and are ideal for applications including food processing, leisure, dairy, brewing, pharmaceutical, chemical and petrochemical industries.

304 grade stainless steels contain around 18% chromium and 10% nickel and provides excellent corrosion resistance.



For applications where superior corrosion resistance properties are required under extreme conditions particularly where chlorides are involved, 316 grade stainless steels are used and contain around 17% chromium, 12% nickel and 2.2% molybdenum.

Unlike all other grades of stainless steels, austenitic grades are non-magnetic and as a consequence magnetic particles are not attracted to the system surfaces which otherwise would encourage both contamination and corrosion.

Ferritic, Martensitic and bluplex stainless steels are unsuitable for drainage products.

C E ACO go further than the minimum legal standard

ACO believe that higher quality standards are vital for any product that is being installed permanently, and as market leader our customers would expect nothing else from us. Therefore ACO design and manufacture products to the full requirements of applicable harmonised standards. This ensures that the product is not only safe, but all aspects of performance and function are of the highest possible quality.

In addition to product specific standards ACO also has Integrated Management Registration PAS 99:2006, which covers the design, manufacture and supply of our products, and is compliant with ISO 9001:2008, and ISO 14001:2004 and BS OHSAS 18001:2007.

ACO Building Drainage introduced CE marking on its standard products ahead of schedule in 2011. Providing assurance to our customers has been a key driver for ACO. We have done everything to protect our clients and end-users. Please contact us for help and advice.

The implications of not carrying CE marking on products are potentially very serious for the manufacturer and supply chain. After 1 July 2013 it will become a criminal offence to place any construction product covered by hENs on the market without an authorised CE mark. Any companies who do so could find themselves pursued by Trading Standards. If convicted, this could mean a fine and even potentially a prison sentence. So make sure that you follow the rules.

Pickle Passivation Process





ACO resources include the largest pickle passivation plant in Europe.

The standard ACO Building Drainage manufacturing process uses the pickle passivation chemical finishing process to restore the products to their full optimum corrosion resistant state without damaging the surface finish. This is considered the best post-fabrication surface treatment method.

Pickle Passivation fully restores the corrosion resistance properties of stainless steel ensuring optimum performance.



EM 13502

BS EN ISO 9001:2008

member of

construction A

CONTRIBUTING TO A RESULT

ACO Technologies plc has been certificated and registered by BSI to operate a quality management system which complies with the requirements of BS EN ISO 9001:2000.



products association ACO Technologies plc is a member of Construction Products Association



ACO Building Drainage is a member of the Fabricated Access Cover Trade Association.



ACO is registered under the Rail Industry Supplier Qualification and Registration Scheme for Civil Engineering - Supply of Materials. Drainage products (inc. Environmental Protection products.



ACO Building Drainage is a member of FeRFA the Resin Flooring Association.



ACO Building Drainage are members of Campden BRI



ACO is a member of the Foodservice Consultants Society International (UK). FCSI is the premier association promoting professionalism in foodservice and hospitality consulting.



NBS is the Architectural standard

detailed in the NBS Plus section.

specification and ACO products are fully

NSSPlus

ACO is a leading member of the European Hygienic Engineering & Design Group (EHEDG).



ACO is a member of the Construction CPD Certification Service The Construction CPD Certification Service assists in the dissemination of high quality, independently certified. continuing personal/professional development (CPD).



ACO Building Drainage is an affiliate member of B&ES.



The Builders Merchant Federation (BMF) provides Builders Merchants with the support and advice needed to run their business in a competitive environment, ACO hold a suppliers and manufacturers membership.



ACO Technologies plc is a member of BASEA (British Airport Service & Equipment Association).



ACO Building Drainage are affiliate members of the FDF.



For quick access to our website, scan:



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