

ID22

ACO Industrial Drainage

Product Catalogue



ACO. creating
the future of drainage

The ACO system chain provides drainage solutions which meet the future needs of industries where hygiene is essential



COLLECT: Collect and remove
CLEAN: Pre-clean and process
HOLD: Protect and attenuate
RELEASE: Pump, discharge and reuse

In a food service environment, hot water, grease and organic waste must be counteracted by more complex and sophisticated drainage concepts. ACO achieves this with intelligent system solutions which optimise food safety, health and safety of employees and the protection of water. Every ACO product within the ACO system chain safely controls water as it passes along the chain to ensure it can be hygienically, economically and ecologically handled in a viable way.



ACO system chain
in action



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ACO Industrial Drainage Support

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Introducing ACO Industrial Drainage

Introducing ACO Industrial Drainage

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Discover more about our products:
buildingdrainage.aco/home

ACO Industrial Drainage
 online information



General introduction

1

ACO is one of the World's leading drainage specialists with 60 years' experience gained across a wide range of sectors. Our passion for producing high performance products has led us to make major investments in research and development.

We are working in partnership with commercial facility owners, managers and operators. We are continuously developing our products and enhancing our expertise. We understand the critical role that drainage plays in a successful business.

Our product portfolio includes items which are fully compliant with the highest hygienic requirements. We also have a full understanding of the food industry's own standards such as HACCP and we work with bodies including the European Hygienic Engineering and Design Group (EHEDG).

ACO drainage is used in applications anywhere where hygienic, corrosion resistant and durable drainage performance is essential:

- Professional kitchens
- Food processing facilities
- Brewing, bottling and canning plants
- Chilled warehouses
- Laboratories
- Chemical industries
- Pharmaceutical industries
- Restaurants
- Schools
- Hospitals
- Hotels
- and others



HygieneFirst

As one of the World's leading commercial drainage specialists, The ACO Group understands the critical role that drainage plays in a successful commercial food preparation business.

We appreciate that food safety, hygiene and cost control are all vital factors, yet we also understand that for many, drainage is out of sight and out of mind.

As a result, many drainage systems are not designed well, which leads to inefficiencies, costly ongoing cleaning and maintenance. In worst case scenario it can result in food contamination, closure of a facility and even loss of a business. As the company that's driving the future of drainage, we are determined to change this by raising the profile of hygienic drainage and improving standards across every part of the process.

Our HygieneFirst philosophy represents our commitment to delivering products that provide ultimate hygienic performance. We design intelligent drainage solutions that minimize operational costs without compromising food safety.

Hygienic design requirements

ACO offers sustainable, integrated drainage systems which are designed to protect business, the environment and ultimately public health.

Our aim is to constantly improve every aspect of safety, hygiene and functional performance.

We believe that our systems and services are truly unique, delivering unparalleled benefits to everyone involved in project delivery or subsequent operation.

NSF International

ACO has become the first and only drainage company to obtain 14159-1 – Hygiene Requirements for the Design of Meat and Poultry Processing Equipment certification for its products from NSF International.

The certification has been awarded to ACO in recognition of the hygienic performance of its drainage systems and products, and its compliance with the strict standards and procedures of the NSF.

It also underlines ACO's ongoing commitment to the very high standards of manufacturing and to research-led product development which ensures its products deliver optimum hygienic performance.

EHEDG

ACO hygienic drainage fulfils stringent hygienic requirements to prevent harmful bacteria contamination. We apply relevant hygienic design principles that are reserved for food contact surfaces EN 1672, EN ISO 14159 and EHEDG documents No. 8, 13 and 44 to the design of our drainage products.



Hygienic design

Full drainability

The outlet is in lowest position.

Sleek slope functionality provides a fully drainable solution.

Round internal corners

Minimum radius of internal corners is 3 mm.

Butt welds are fully welded.

Hygienic joints

Metal-to-metal contact at non-disassembled joints is avoided.

Sealed joints are designed to prevent accumulation of soil and bacteria.

Edge in-fill

The channel frame edge is filled with a waterproof material.

Material

Stainless steel grade min. 1.4301 according to EN 10088 (304 according to AISI).

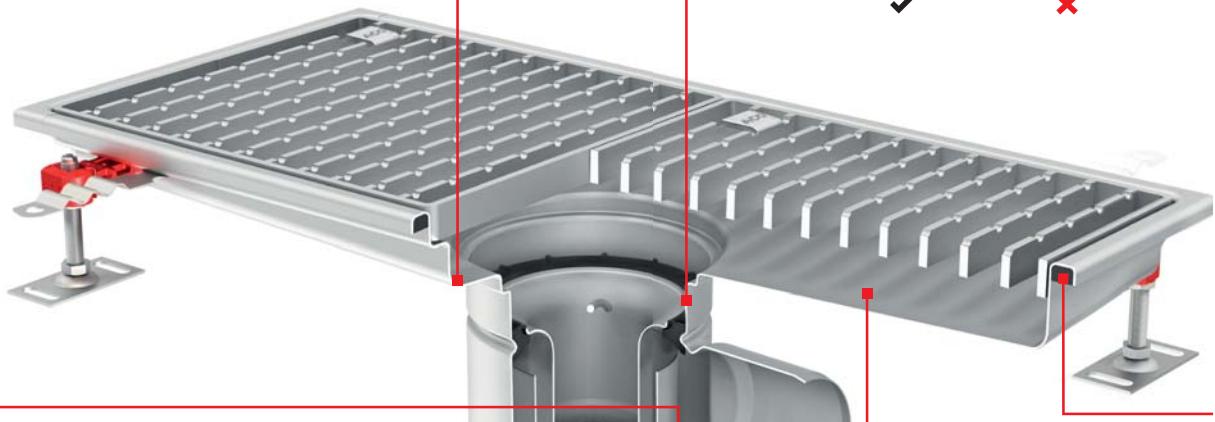
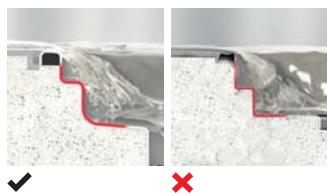
Fully pickled and passivated or electropolished.

Hygienic design principles

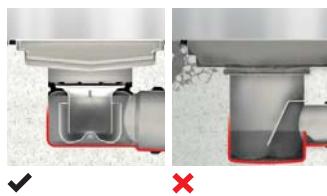
Hygienic design

1

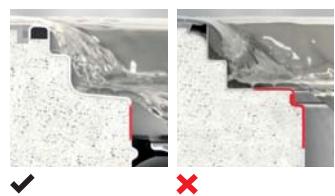
All internal radii equal or larger than 3 mm which greatly increases cleaning effectiveness



Dry sump design, completely drainable - eliminating stagnant water, smells, microbial growth and potential chemical hazards.



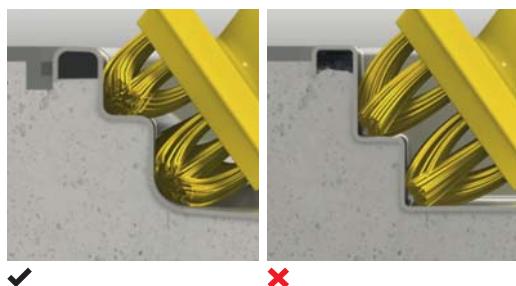
Hygienic joints: deep-drawn body ensures smooth contours eliminating crevices that can harbour dangerous bacteria



Edge in-fill ensures stable and durable transmission between the gully and surrounding floor and helps to minimise the risk of floor cracks which could harbour microorganism



Cleaning performance



Material

Stainless steel

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% of chromium; however, most commonly used stainless steels contain around 18% of chromium. Other significant alloying elements include nickel and for superior corrosion resistant properties, molybdenum.

Stainless steel has the following unique advantages:

- High corrosion resistance
- Nonporous, easy to clean and disinfect
- Aesthetically pleasing
- Resistant to extreme temperatures and thermal shock
- Coefficient of linear expansion similar to concrete
- 100% recyclable material

ACO drainage is manufactured from austenitic stainless steel, grades 1.4301 or 1.4404 according to EN 10088 (304 or 316L according to AISI).

It is ideal for applications including food processing, leisure, dairy, brewing, pharmaceutical, chemical and petrochemical industries.

Surface treatment

The process cutting, forming and welding of stainless steel will introduce impurities into the surface of the material and unless the appropriate action is taken, the material will begin to corrode and ultimately fail in service. Therefore, after fabrication, it is vital that stainless steel is treated with the correct surface treatment to ensure it is fully corrosion resistant. By applying pickle passivation as the primary surface treatment, the corrosion resistance of stainless steel can be fully restored to its original state, ensuring long and reliable life performance together with the required aesthetic appearance.

Finishes used by ACO include:

Pickle passivation (acid treatment)

All ACO drainage is pickle passivated by immersing products in a series of acid baths. This is a fundamental requirement for removing iron embedded particulates introduced in the fabrication process and also for restoring the chromium depleted regions generated by the welding process.

ACO has one of the largest and most advanced pickle passivation installations in Europe which ensures the optimum corrosion resistance of our products.

Electropolishing (electrochemical process)

After pickle passivation, some products are then immersed in an electrolytic fluid in which the products become the anode of a direct current electrical circuit. This process is characterized by a selective attack of the surface of the components whereby upstanding roughness is preferentially dissolved and will yield a progressively smoother, brighter surface. All hygienic box channel grates are electropolished as a standard.

Brushing (mechanical process)

ACO channels have a brushed upper edge for aesthetic reasons.

Standards and certifications

1

ACO gully and ACO channel

ACO gully and ACO channel ranges are designed, manufactured, tested and certified in accordance with EN 1253. Furthermore ACO modular channels are also certified in accordance with EN 1433 and they are CE marked.

We apply the relevant hygienic design principles reserved for food contact surfaces EN 1672, EN ISO 14159 and EHEDG documents No. 8, 13, 44 and NSF International.

ACO fire protective kit is tested according to EN 1366-2 (Fire resistance tests for service installations) and classified according to EN 13501 (Fire classification of construction products and building elements).

ACO pipe

The ACO pipe push-fit system is classified and certified as non-combustible product and is manufactured in compliance with EN 1124. This standard classifies the ACO pipe systems as class A1 fire resistant (highest rating).

ACO pipe systems are certified also by SITAC authority as fire resistant (cert. no. 0410-01).

Special certificate of fire resistance for coated pipes (no. CSI PK-13-083) is available.

System overview and benefits

ACO provides solutions which optimise food safety, employee's health and safety and water protection. Every ACO product safely controls the water to ensure that it can be hygienically, economically and ecologically managed in a viable way.



Food safety

- ACO hygienic drainage fulfills hygienic requirements to prevent harmful bacteria contamination. We apply relevant hygienic design principles reserved for food contact surfaces as recommended by EHEDG.
- Our product design ensures minimal build-up of food particles and debris as well as a safe connection with the surrounding floor to minimise any opportunity for bacteria to grow throughout the drainage system.
- Sleek slope function and hygienically designed products ensure our system is fully drainable, eliminating the stagnant odour of waste water.

Cost control

- ACO drainage systems can be easily maintained, reducing associated cleaning costs, thanks to their functional design and cleaning recommendations which have been developed in partnership with premium cleaning agent suppliers.
- ACO's advanced manufacturing technologies ensure durability and our special surface treatment guarantees corrosion resistance. Our systems perform effectively at all times and keep business disruption to a minimum.
- We provide expertise in drainage system planning, correct installation and creating a safe connection with the surrounding floor to avoid unnecessary costs.

Health & Safety

- For additional safety in high risk areas that require heavy water usage, a slip resistant grating is available.
- Each component of the drainage system is easy to remove and clean, and there are no sharp edges for optimum employee safety.
- ACO drainage products have a fire resistant solution certified according to EN 136.

Selection guide

Application

1

The layout of the drainage system as well as the design of drainage elements has an impact on future operational effectiveness and on costs.

This guide offers a range of basic areas which need to be considered when specifying a drainage system.

To specify an appropriate drainage system for a particular application, the zone of operation and amount and frequency of water used is crucial.

Production process/ Cleaning process	Zones with high risk for food safety	Zones with medium or low risk for food safety	Zones without direct risk for food safety
Wet production process/ Wet cleaning process	<ul style="list-style-type: none">■ Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers■ High retention - high flow rate■ Slip resistance - high requirement	<ul style="list-style-type: none">■ Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow■ High retention - high flow rate■ Slip resistance - high requirement	<ul style="list-style-type: none">■ Hygienic design - recommended for easy cleaning and maintenance. A combination of products could be considered for easy layout design■ High retention - high flow rate■ Slip resistance - high requirement
Dry production process/ Wet cleaning process	<ul style="list-style-type: none">■ Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers■ High flow rate■ Slip resistance - medium requirement	<ul style="list-style-type: none">■ Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow■ High flow rate■ Slip resistance - medium requirement	<ul style="list-style-type: none">■ Hygienic design is recommended for easy cleaning and maintenance; combination of products could be considered for easy layout design■ High flow rate■ Slip resistance - medium requirement
Dry production process/ Controlled wet cleaning process	<ul style="list-style-type: none">■ Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers■ Medium to low flow rate■ Odour proof cover	<ul style="list-style-type: none">■ Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow■ Medium to low flow rate■ Odour proof cover	<ul style="list-style-type: none">■ Hygienic design - recommended for easy cleaning and maintenance. A combination of products could be considered for easy layout design■ Medium to low flow rate■ Odour proof cover

Drainage type

Based on the basic application, the type of drainage needs to be selected according to the layout of the operational space and technology employed.

Point drainage



Linear drainage



Material resistance

The chemical mixture of the waste water from the process and/or from the cleaning as well as temperature of the final mixture influences the material resistance of the drainage system.

ACO drainage is manufactured from austenitic stainless steel; grades 1.4301 or 1.4404 according to EN 10088 (304 or 316L according to AISI) and is ideal for applications within food processing, dairy, brewery, commercial kitchen, pharmaceutical, chemical, petrochemical industries and leisure.

Besides stainless steel, drainage products also contain sealing materials:

ACO gullies – all the seals are made of NBR (acryl nitrile-butadiene rubber) or SBR (styrene-butadiene rubber)

ACO box and slot channels – flange connection seals are made of NBR (acryl nitrile-butadiene rubber)

ACO modular box and slot channels – flange connection seals are made of NBR (acryl nitrile-butadiene rubber)

ACO pipes – socket seals can be made from either EPDM (ethylene propylene diene monomer) or FPM (fluoroelastomer) – Viton®.

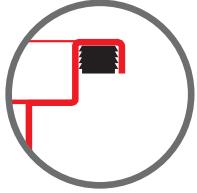
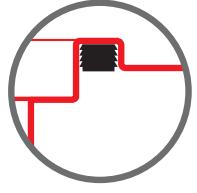
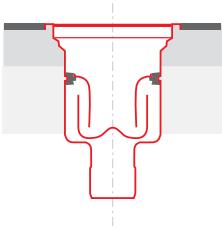
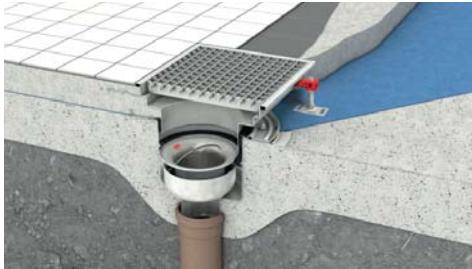
For details of material resistance see page 254 or contact our Sales/Technical department.

Floor structure and finish

Depending on the composition of the floor construction; the appropriate type of gully or channel should be selected.

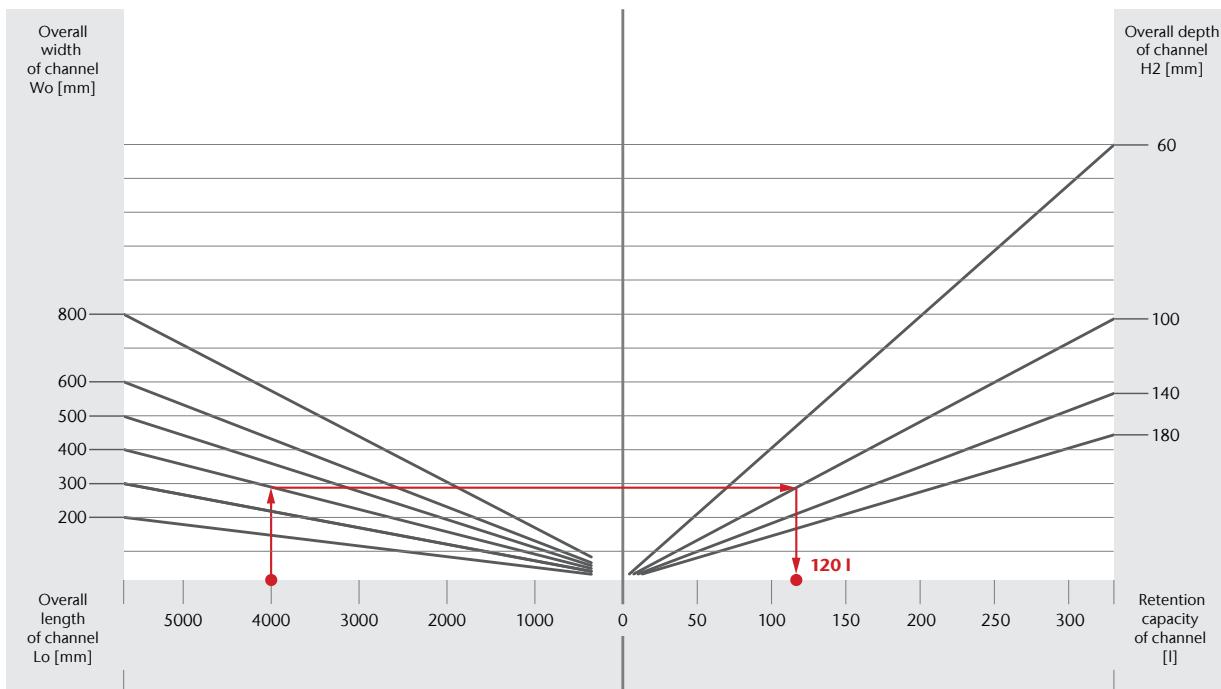
If there is insulation in the floor structure, the O-ring needs to be removed from the friction ring, which will allow the water from the insulation to be drained to the gully body.

Depending on the floor finish; the appropriate edge of the channel or gully top should be selected.

Channels + Telescopic gullies		Fixed height gully		
Floor finish	Tiled, concrete or resin floor	Vinyl	Tiled, thin bed installation	Tiled, concrete or resin floor
Channel or gully edge	Standard edge	Vinyl edge	Extended edge	Standard edge
Channel or gully top drawing				
Waterproof membrane connection	Connected to gully body		Connected to channel / gully top	Independent of the gully
Gully body type	Telescopic adjustable Adhesive bonding flange or mechanical clamping flange		Telescopic adjustable Location flange	Fixed height gully
Gully body picture				
Installation example				

Retention capacity

Depending on the application, the appropriate retention capacity should be considered.



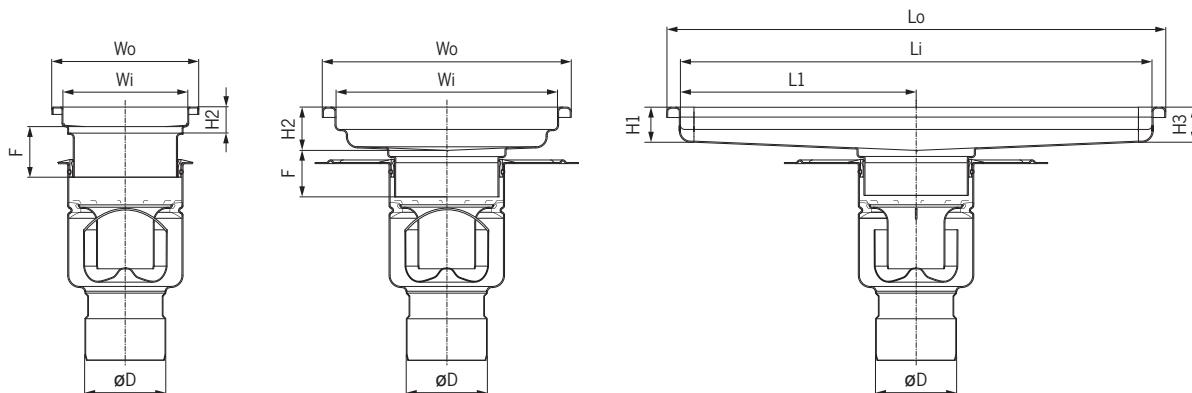
Example: channel length 4000mm, width 400mm, depth 100mm, retention capacity 120 l.

Channel geometry

Based on the retention capacity considered, as well as the floor structure, the particular dimensions of a channel

or gully top (for telescopic solution) need to be specified. For the channel a construction height at the outlet

position as well as the position of the outlet and the height of the endcaps has to be defined.



Flow rates

Flow rates reflect the system's ability to constantly drain a certain amount of water.

Flow rate is generally defined by the ACO gully size.

For details of flow rates see page 107 or contact our Sales/Technical department.

Accessories

For the collection of solid parts, the gully or channel should be fitted with a silt basket.

Telescopic connection without flange for waterproofing

ACO gully EG150

Accessories delivered as standard with the gully

- Friction ring
- Friction ring; FAT; FAT support

Telescopic connection with flange for waterproofing

ACO hygienic gully 142

ACO hygienic gully 157

ACO hygienic gully 218

Optional accessories

- | | | | |
|------------------------|--------------------------------------------|------------------------------------------|------------------------------------------|
| ■ Sieve | ■ Silt basket for fixed height gully 0.3 l | ■ Silt basket for vertical gully 0.6 l | ■ Silt basket for vertical gully 1.4 l |
| ■ FAT with silt basket | ■ Silt basket for telescopic gully 0.4 l | ■ Silt basket for horizontal gully 0.3 l | ■ Silt basket for horizontal gully 0.7 l |
| ■ FAT | | | |

Gratings selection guide

When selecting the correct grating for your application, careful attention must be given to number of factors. The most important challenge is selecting the right type of grating with appropriate load class. Careful consideration of this will positively influence the grating lifespan.

The correct grating type and load class

The grating itself is the most exposed part of gully or channel in regards to traffic. To minimize the risk of failures, a proper grating type and load class have to be considered based on the defined traffic during all future operations.

■ Type of machinery

Depending on the type of production facility, usually there is a wide range of traffic machinery that will pass over the drainage. Forklifts with pneumatic tires and trolleys with small plastic wheels both behave differently when moving over the same type of grating.

■ Unusual traffic

In occasional situations, machinery that hasn't been considered during grating specification may

enter the area where the drainage is installed. This can include heavy trucks used for cleaning or disposal of waste. Even though this will happen rarely, it presents a great risk of damaging the gratings in just this one instance.



■ Traffic frequency

Wide range of ACO gratings and covers offers a great selection base for both light and heavy load requirements. Consider all grating types and combinations for the most comfortable use.



■ Drainage location

In real life scenario, the traffic movement can be irregular, causing sudden impacts or torque generated by wheels turning on the grating itself. This dynamic load stress can mount up to 2 times the static load value.

Different load class standards

ACO gullies and ACO channels are tested and specified in accordance with EN 1253 norm and the ACO modular channels are tested and specified in accordance with EN 1433 norm.

The testing method for the two norms is different; therefore the values are not directly comparable.

To assist with evaluating and comparing the two different load standards, the table below provides a simple comparison between the EN 1253 and EN 1433 load class specifications.

Traffic type	Recommended load class*		Description
	EN 1253	EN 1433	
Pedestrian		L 15	A 15
Light Duty		R 50	B 125
Medium Duty		M 125	C 250
Heavy Duty		N 250	
Extra Heavy Duty		P 400	D 400
			Commercial and industrial areas subjected to heavy traffic

* The EN 1433 and EN 1253 load class specification norms for each type of traffic correspond with results acquired under laboratory testing.

Other grating features to consider during selection are hygienic performance, chemical resistance, flow rate and slip resistance.

All of these are necessary to choose the appropriate grating that will last for a long time without any defects.

The table below provides an overview of available gratings and their properties.

ACO grating type	ACO frameless ladder grating	ACO ladder grating	ACO slot cover	ACO mesh grating		
	Slip resistant	Slip resistant	Plain	Plain	Slip resistant	Plain
Surface	electropolished	electropolished	electropolished	sand blasted top	electropolished	electropolished
Slip resistance	Yes	Yes	No	Yes	Yes	No
Cleanability	Excellent	Good	Good	Good	Sufficient	Sufficient
Potential for slip - Pendulum test BS 7976-2	Low	Low	Moderate	Low	Low	Moderate
Slip resistance classification - Ramp test DIN 51130	R11	R11	R9	R11	R11	R9
Load class availability acc. EN 1253 for hygienic channels	M 125	R 50; M 125; N 250; P 400*	R 50; M 125; N 250; P 400*	R 50; M 125; N 250	L 15	L 15
Load class availability acc. EN 1253 for hygienic gullies	M 125	R 50; M 125	N 250	R 50; M 125	L 15	L 15

* P 400 load class available as customised solution only



2

ACO
Gully



COLLECT:
Collect and remove



ACO Gully

Introduction

ACO hygienic gully 142

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Fixed height, horizontal outlet	41
Telescopic, vertical outlet	46
Telescopic, horizontal outlet	49
Gully top, telescopic	52
Raising piece, telescopic	55
Fixed height, vertical outlet	58
Fixed height, horizontal outlet	64
Telescopic, vertical outlet	69
Telescopic, horizontal outlet	72
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Gratings for vinyl top Ø170	98
Gratings for vinyl top Ø222	99
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ACO hygienic gully 157

ACO hygienic gully 315

ACO hygienic gully 440

ACO gully EG150

Gratings

Accessories

Flow rates and construction heights



Discover more in a 3D environment:
buildingdrainage.aco/products

ACO gully
online information



Introduction

Hygienic design

ACO hygienic drainage fulfils strongest hygienic requirements to prevent harmful bacterial contamination.

We apply the relevant hygienic design principles reserved for food processing equipment EN 1672, EN ISO 14159, EHEDG document No. 8, 13, 44.

2

ACO gully hygienic features:

- Full drainability
- Internal radii equal or larger than 3 mm
- Hygienic joints
- Edge infill
- Stainless steel grade min. 1.4301 according to EN 10088 (304 according to AISI)
- Fully pickled and passivated

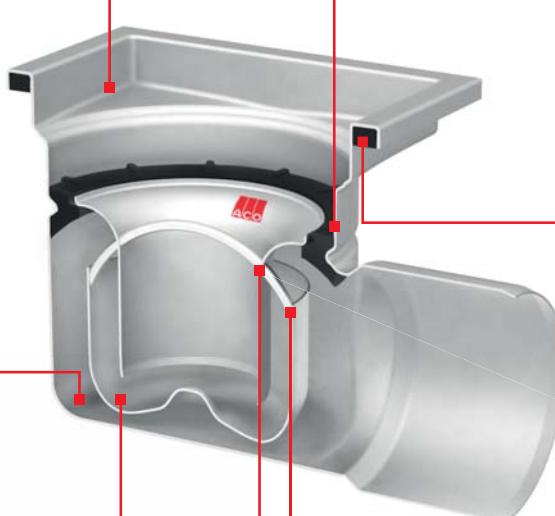


All internal radii equal or larger than 3 mm which greatly increases cleaning effectiveness

Hygienic joints: deep-drawn body ensures smooth contours eliminating crevices that can harbour dangerous bacteria

Full drainability: Dry sump design, completely drainable - eliminating stagnant water, smells, microbial growth and potential chemical hazards.

Edge in-fill ensures stable and durable transmission between the gully and surrounding floor and helps to minimize risk of floor cracks which could harbour microorganism



Foul air trap without overlapped joints

Foul air trap internal corners smooth and rounded

System Overview

ACO gully range is available in a number of versions featuring different flow rates, grating designs, sizes and spigot outlet diameters to suit various applications.

The floor construction and depth together with the use of any waterproofing membrane play an important role in the selection of the appropriate type of gully.

The ACO gully range is available with vertical or horizontal spigot outlets.

Fixed height gullies are convenient and free-standing units which are suitable for cementitious, resin or tiled floors.

Telescopic gullies can be installed either with a gully top or ACO channel in most flooring constructions, including floors with waterproofing membranes.

2

Fixed height solution



Telescopic solution



- 1 Gratings
- 2 Silt basket
- 3 Foul air trap
- 4 Foul air trap support
- 5 ACO gully body
- 6 Gully top
- 7 Friction ring
- 8 ACO EasyFix levelling feet



ACO hygienic gully 142 fixed height, vertical outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	200 x 200	Without FAT	N/A	1.4301	414700
	75			1.4404	414800
				1.4301	414701
		With FAT	1,45 / 2,1	1.4404	414801

Gratings for gully top 200 x 200 mm → Page 82

Accessories for ACO hygienic gully 142 → Page 101

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	200 x 200	110	Without FAT	N/A	1.4301 414702
				1.4404	414802
	200 x 200	110	With FAT	1,45 / 2,1	1.4301 414703
				1.4404	414803

2

Extended edge

	200 x 200	75	With FAT	1,45 / 2,1	1.4301 414744
	200 x 200	110	With FAT	1,45 / 2,1	1.4301 414745
	200 x 200	110			1.4404 414844
	200 x 200	110			1.4404 414845

ACO hygienic gully 142 fixed height, horizontal outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

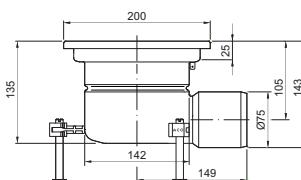
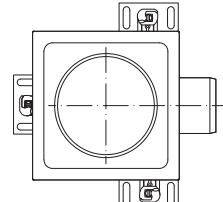
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Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	200 x 200	Without FAT	N/A	1.4301	414704
	75			1.4404	414804
		With FAT	1.45 / 1.7	1.4301	414705
				1.4404	414805

Gratings for gully top 200 x 200 mm → Page 82

Accessories for ACO hygienic gully 142 → Page 101

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	200 x 200	Without FAT	N/A	1.4301	414706
	110			1.4404	414806
	200 x 200	With FAT	1.45 / 1.7	1.4301	414707
	110			1.4404	414807

Extended edge

	200 x 200	75	With FAT	1.45 / 1.7	1.4301	414746
	200 x 200	110	With FAT	1.45 / 1.7	1.4301	414747
	200 x 200	110	With FAT	1.45 / 1.7	1.4404	414846
	200 x 200	110	With FAT	1.45 / 1.7	1.4404	414847

ACO hygienic gully 142 telescopic, vertical outlet

Product information

Telescopic gully can be combined either with gully tops or with linear drainage channels.

Gullies are equipped with flanges for connection of waterproof membrane.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

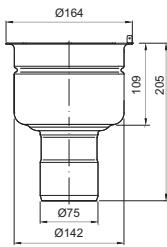
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Product benefits

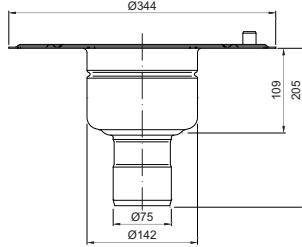
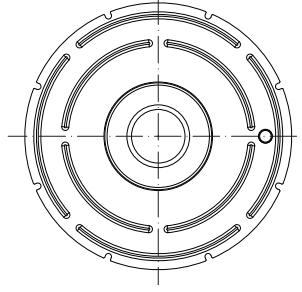
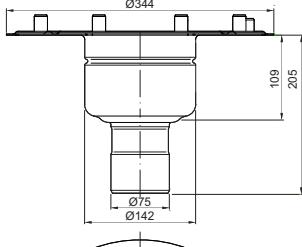
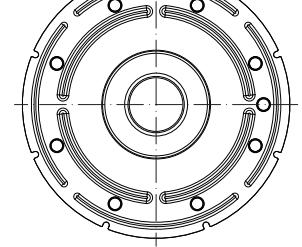
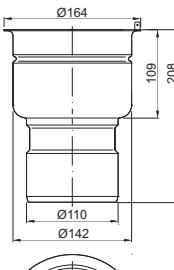
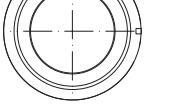
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included



Order information

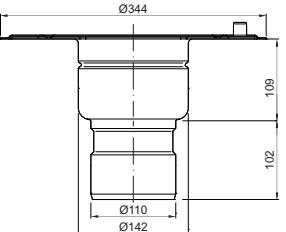
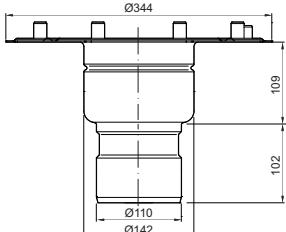
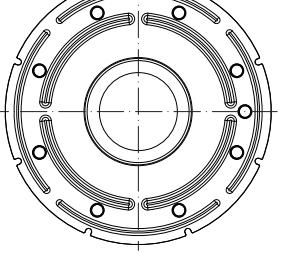
Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	75	Without FAT	N/A	1.4301	414708
Location flange	75	With FAT	1,4 - 1,7 / 2,1	1.4404	414808
				1.4301	414709
				1.4404	414809

Accessories for ACO hygienic gully 142 → Page 101

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	414710
	75			1.4404	414810
		With FAT	1,4 - 1,7 / 2,1	1.4301	414711
	75			1.4404	414811
		Without FAT	N/A	1.4301	414714
	110			1.4404	414814
		With FAT	1,6 - 2 / 1,7	1.4301	414715
				1.4404	414815

2

ACO hygienic gully 142
telescopic, vertical outlet

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	110	Without FAT	N/A	1.4301	414716
		With FAT	1,6 - 2 / 1,7	1.4404	414816
	110	Without FAT	N/A	1.4301	414717
		With FAT	1,6 - 2 / 1,7	1.4404	414817
	110	Without FAT	N/A	1.4301	414718
		With FAT	1,6 - 2 / 1,7	1.4404	414818
	110	Without FAT	N/A	1.4301	414719
		With FAT	1,6 - 2 / 1,7	1.4404	414819

2

Accessories for ACO hygienic gully 142 → Page 101

ACO hygienic gully 142 telescopic, horizontal outlet

Product information

Telescopic gully can be combined either with ACO gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

Gullies are equipped with flanges for connection of waterproof membrane.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included
- Adjustable EasyFix levelling feet



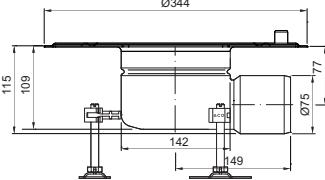
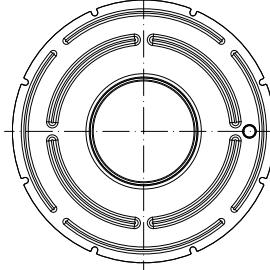
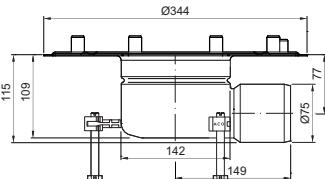
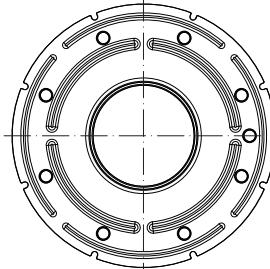
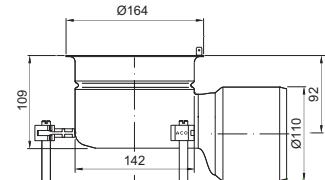
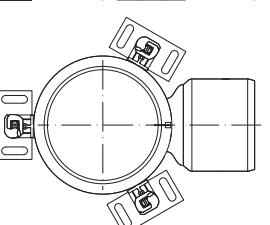
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Order information

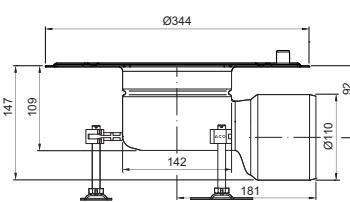
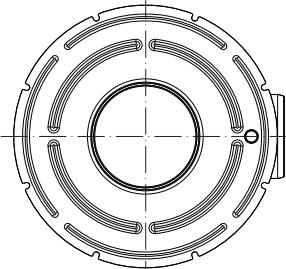
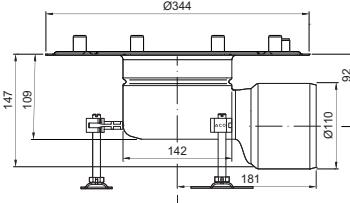
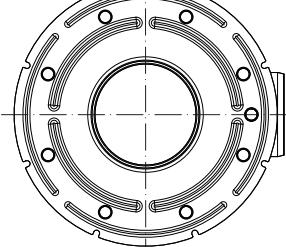
Type of flange	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
With location flange	75	Without FAT	N/A	1.4301	414720
				1.4404	414820
				1.4301	414721
		With FAT	1,4 - 1,7 / 1,7	1.4404	414821

Accessories for ACO hygienic gully 142 → Page 101

ACO hygienic gully 142
telescopic, horizontal outlet

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	414722
	75	With adhesive bonding flange	1,4 - 1,7 / 1,7	1.4404	414822
		Without FAT	N/A	1.4301	414724
	75	With mechanical clamping flange	1,4 - 1,7 / 1,7	1.4404	414824
		Without FAT	N/A	1.4301	414726
	110	With location flange	1,4 - 1,7 / 1,7	1.4404	414826
		With FAT	1,4 - 1,7 / 1,7	1.4301	414727
		With FAT	1,4 - 1,7 / 1,7	1.4404	414827

Accessories for ACO hygienic gully 142 → Page 101

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	414728
	110	With adhesive bonding flange	1,4 - 1,7 / 1,7	1.4404	414828
		Without FAT	N/A	1.4301	414729
	110	With adhesive bonding flange	1,4 - 1,7 / 1,7	1.4404	414829
		Without FAT	N/A	1.4301	414730
	110	With mechanical clamping flange	1,4 - 1,7 / 1,7	1.4301	414731
		Without FAT	N/A	1.4404	414830
	110	With mechanical clamping flange	1,4 - 1,7 / 1,7	1.4404	414831

2

ACO hygienic gully 142 gully top, telescopic

Product information

Gully top can be combined with telescopic gully.

Different gully top types are available depending on floor structure.

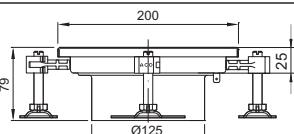
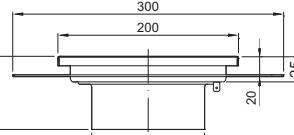
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Product benefits

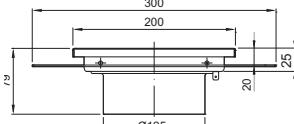
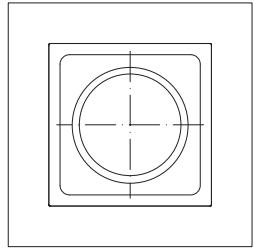
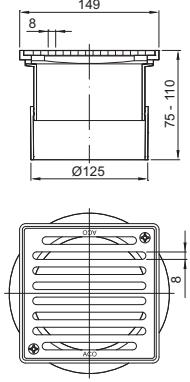
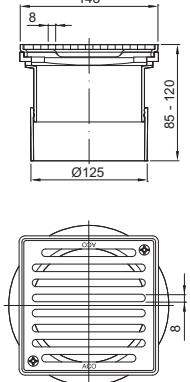
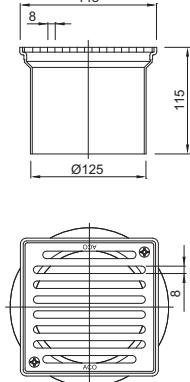
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Gully top type	Gully top size [mm]	Material	Item number
	Standard edge	200 x 200	1.4301 414732
	Extended edge	200 x 200	1.4404 414834
			1.4301 414734

Gratings for gully top 200 x 200 mm → Page 82

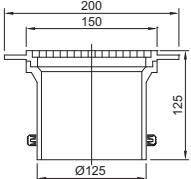
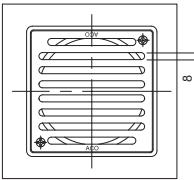
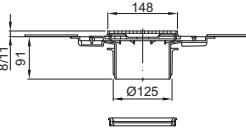
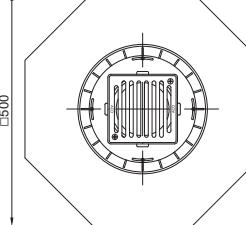
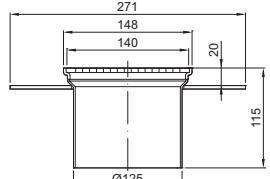
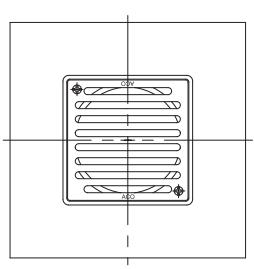
Gully top type	Gully top size [mm]	Material	Item number
		1.4301	414735
	Extended top with drainage holes 200 x 200		1.4404 414835
	Plastic top with stainless steel grating (K3) 149 x 149	Plastic	414903*
	MEKU top with stainless steel grating (K3) 148 x 148	Plastic	414904*
	Square top with stainless steel grating (K3) 148 x 148	1.4301	414905*

2

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

Gratings for gully top 200 x 200 mm → Page 82

ACO hygienic gully 142
gully top, telescopic

Gully top type	Gully top size [mm]	Material	Item number	
 	Plastic top with stainless steel grating (K3)	150 x 150	Plastic	414906*
 	Plastic thin-bed top with sliding frame and stainless steel grating (K3)	148 x 148	Plastic	414907*
 	Square top with sanded flange and stainless steel grating (K3)	148 x 148	1.4301	414909*

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

Gratings for gully top 200 x 200 mm → Page 82

ACO hygienic gully 142 raising piece, telescopic

Product information

Raising piece can be used for floor structures where multi waterproofing is needed (heat insulation) or where

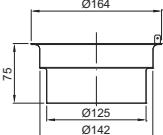
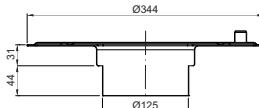
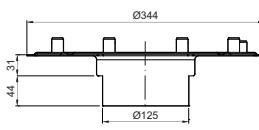
construction height of the slab needs to be increased.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Variety of flanges for membranes
- Telescopic friction ring included



2

Type of flange	Material	Item number
	1.4301	414736
Location flange	1.4404	414836
	1.4301	414737
Adhesive bonding flange	1.4404	414837
	1.4301	414738
Mechanical clamping flange	1.4404	414838

Accessories for ACO hygienic gully 142 → Page 101

ACO hygienic gully 157 fixed height, vertical outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

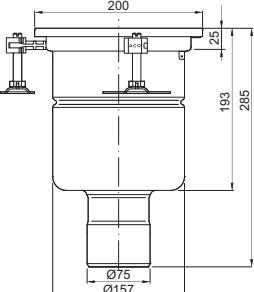
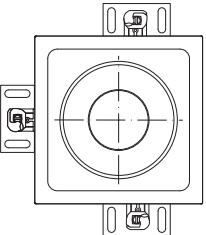
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Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet

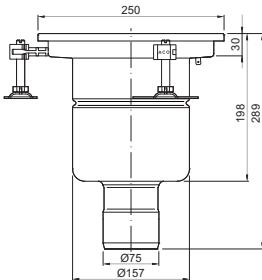
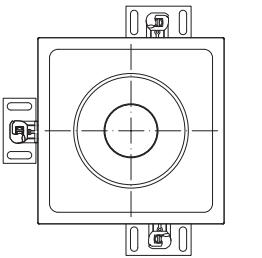
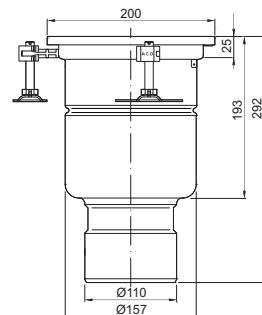
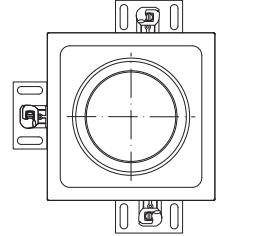
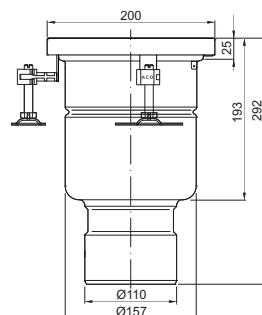
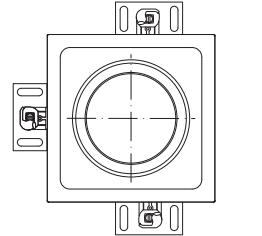


Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	200 x 200	Without FAT	N/A	1.4301	408000
	75			1.4404	408100
					
		With FAT	2.7 / 4	1.4301	408001
				1.4404	408101

Gratings for gully top 200 x 200 mm → Page 82

Accessories for ACO hygienic gully 157 → Page 102

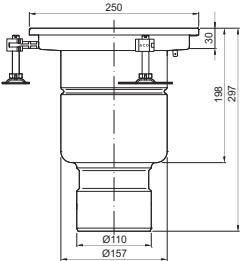
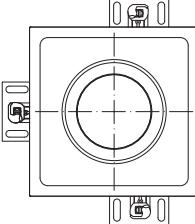
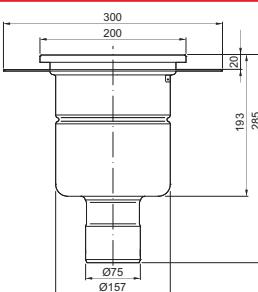
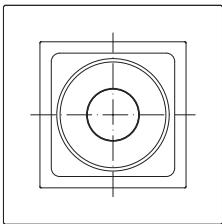
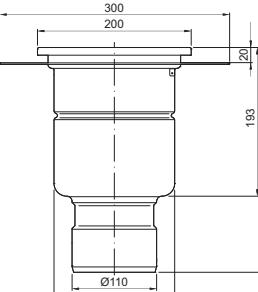
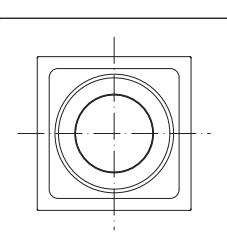
Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	250 x 250	75	Without FAT N/A	1.4301 1.4404	408016 408116
	250 x 250	75	With FAT 2.7 / 4	1.4301 1.4404	408017 408117
	200 x 200	110	Without FAT N/A	1.4301 1.4404	408002 408102
	200 x 200	110	With FAT 3.5 / 4.5	1.4301 1.4404	408003 408103
	200 x 200 with extended vertical edge and PUR infill	110	With FAT 3.5 / 4.5	1.4301	445556
					

2

Gratings for gully top 200 x 200 mm → Page 82
Gratings for gully top 250 x 250 mm → Page 88

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157
fixed height, vertical outlet

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	250 x 250	110	Without FAT	N/A	1.4301 408018
	250 x 250	110	With FAT	3.5 / 4.5	1.4404 408118
Extended edge					
	200 x 200	75	With FAT	2.7 / 4	1.4301 408047
	200 x 200	75	With FAT	2.7 / 4	1.4404 408147
	200 x 200	110	With FAT	3.5 / 4.5	1.4301 408099
	200 x 200	110	With FAT	3.5 / 4.5	1.4404 408199

Gratings for gully top 200 x 200 mm → Page 82
Gratings for gully top 250 x 250 mm → Page 88

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157 fixed height, vertical outlet, round top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

Product benefits

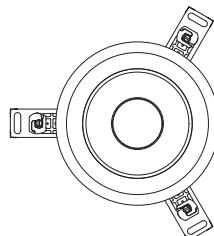
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Wide range of gratings including slip resistant solution
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Adjustable EasyFix levelling feet



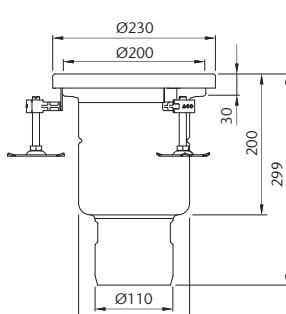
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Order information

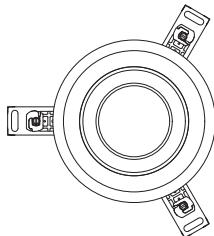
	Top size ø [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge						
	Ø230	Ø200	Without FAT	N/A	1.4301	446734
	Ø230	Ø75	With FAT	2.7 / 4	1.4404	446742
	Ø230	Ø157			1.4301	446735
	Ø230	Ø75			1.4404	446743



ACO hygienic gully 157
fixed height, vertical outlet, round top

Top size \varnothing [mm]	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	230	Without FAT	N/A	1.4301	446736
	110			1.4404	446744
		With FAT	3.5 / 4.5	1.4301	446737
				1.4404	446745

2



Gratings for gully top 200 x 200 mm → Page 82
Gratings for gully top 250 x 250 mm → Page 88

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157 fixed height, horizontal outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

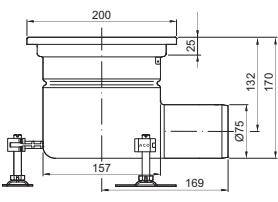
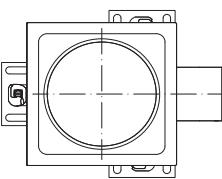
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Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



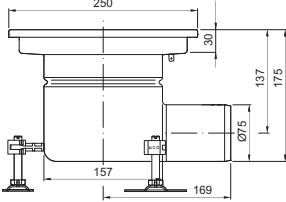
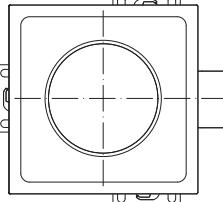
Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	200 x 200	Without FAT	N/A	1.4301	408008
	75			1.4404	408108
		With FAT	2,6 / 4,2	1.4301	408009
				1.4404	408109

Gratings for gully top 200 x 200 mm → Page 82

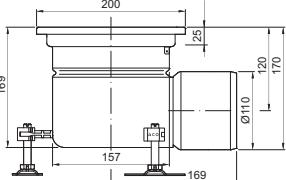
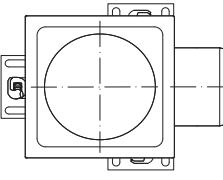
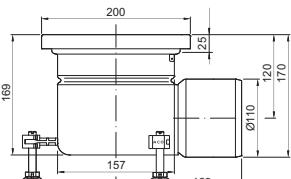
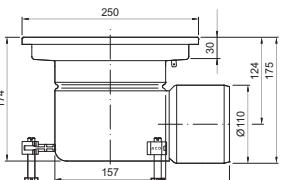
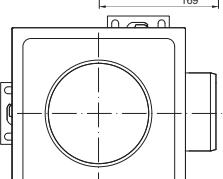
Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157
fixed height, horizontal outlet

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	75	Without FAT	N/A	1.4301	408024
				1.4404	408124
	75	With FAT	2,6 / 4,2	1.4301	408025
				1.4404	408125

2

Standard edge

	110	Without FAT	N/A	1.4301	408010
				1.4404	408110
	110	With FAT	2,8 / 5	1.4301	408011
				1.4404	408111
	110	With FAT	2,8 / 5	1.4301	445557
	110	Without FAT	N/A	1.4301	408026
				1.4404	408126
	110	With FAT	2,8 / 5	1.4301	408027
				1.4404	408127

Gratings for gully top 200 x 200 mm → Page 82
Gratings for gully top 250 x 250 mm → Page 88

Accessories for ACO hygienic gully 157 → Page 102

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Extended edge					
	200 x 200	75	With FAT	2,6 / 4,2	1.4301 408014
	200 x 200	110	With FAT	2,8 / 5	1.4404 408115

2

ACO hygienic gully 157 fixed height, horizontal outlet, round top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

Those gullies can be combined with different grates depending on requested load class.

2

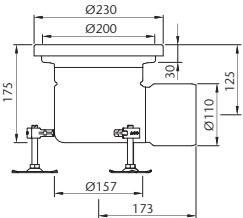
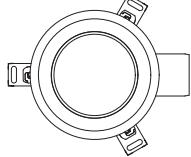
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top size \varnothing [mm]	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	230	Without FAT	N/A	1.4301	446738
	75			1.4404	446746
	230	With FAT	2,6 / 4,2	1.4301	446739
	75			1.4404	446747

Top size ø [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	230	Without FAT	N/A	1.4301	446740
	110			1.4404	446748
		With FAT	2,8 / 5	1.4301	446741
				1.4404	446749

ACO hygienic gully 157 telescopic, vertical outlet

Product information

Telescopic gully can be combined either with gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

Gullies are equipped with flanges for connection of waterproof membrane.

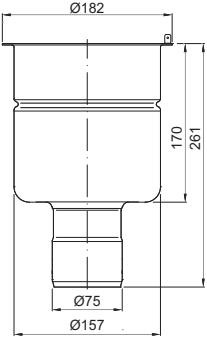
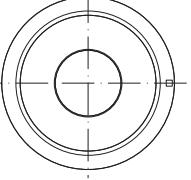
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Product benefits

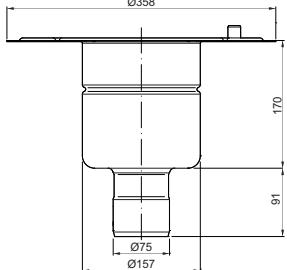
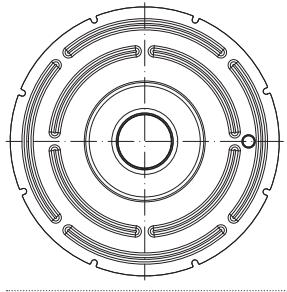
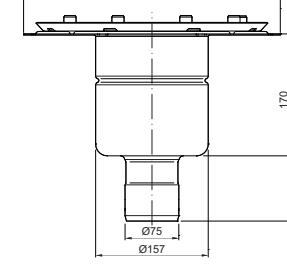
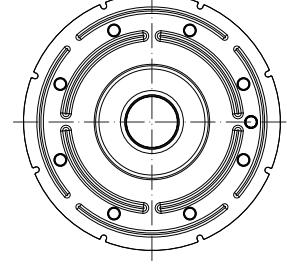
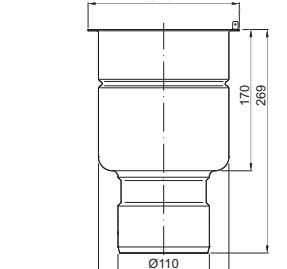
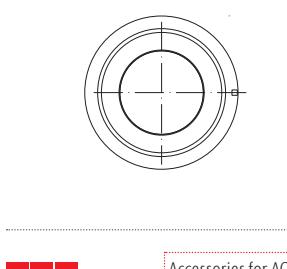
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN1253
- Fire tested and certified solution available for classes EI90 – EI 180 (EN 13 501-2)
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included



Order information

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408048
Location flange	75			1.4404	408148
		With FAT	2,7 - 3,3 / 4	1.4301	408049
				1.4404	408149

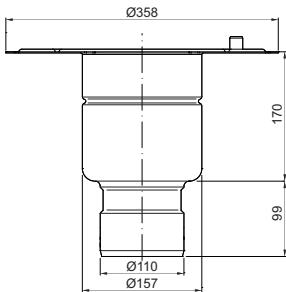
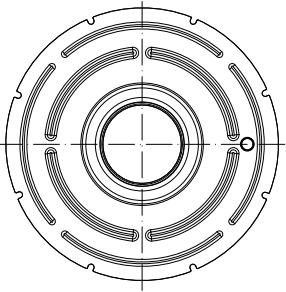
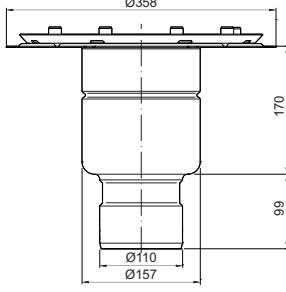
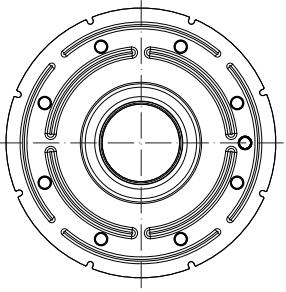
Accessories for ACO hygienic gully 157 → Page 102

Type of flange	Outlet diameter ϕ [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408050
	75	With FAT	2,7 - 3,3 / 4	1.4404	408150
	75	Without FAT	N/A	1.4301	408051
	75	With FAT	2,7 - 3,3 / 4	1.4404	408151
	110	Without FAT	N/A	1.4301	408052
	110	With FAT	3,5 - 4,4 / 4,5	1.4404	408152

2

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157
telescopic, vertical outlet

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408056
	110	With FAT	3,5 - 4,4 / 4,5	1.4404	408156
		Without FAT	N/A	1.4301	408057
	110	With FAT	3,5 - 4,4 / 4,5	1.4404	408157
				1.4301	408058
				1.4404	408158
				1.4301	408059
				1.4404	408159

2

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157 telescopic, horizontal outlet

Product information

Telescopic gully can be combined either with gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

Gullies are equipped with flanges for connection of waterproof membrane.

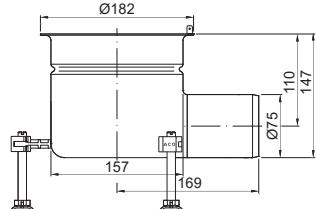
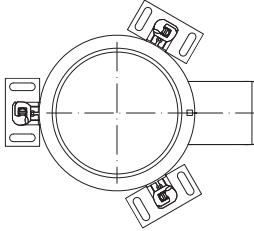
Product benefits

- EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included
- Adjustable EasyFix levelling feet



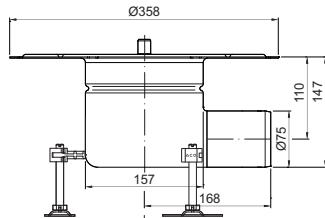
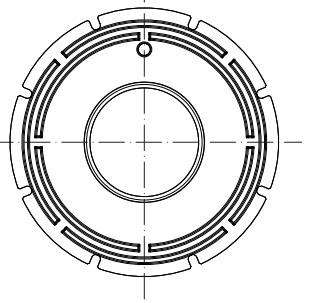
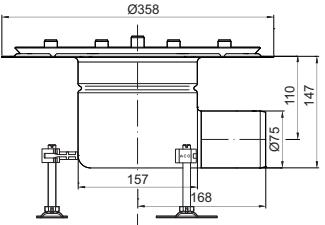
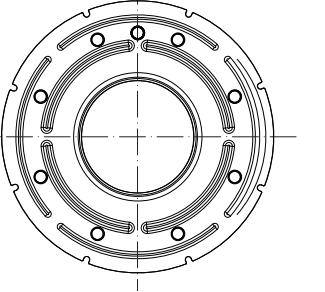
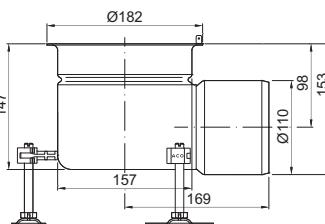
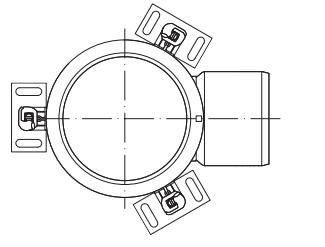
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Order information

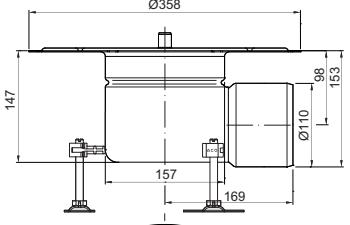
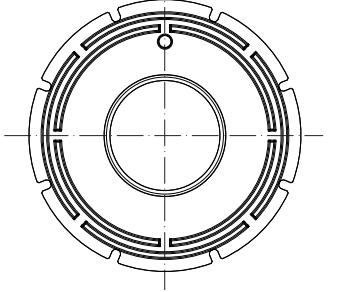
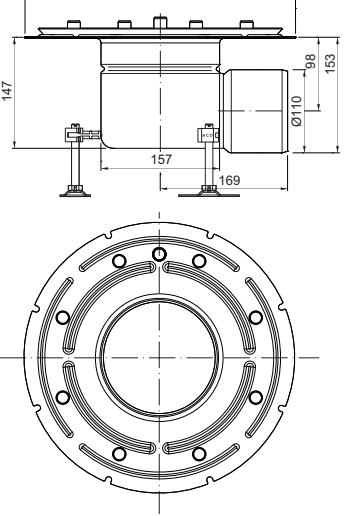
Type of flange	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408072
Location flange	75			1.4404	408172
		With FAT	2,6 - 3,3 / 4,2	1.4301	408073
				1.4404	408173

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157
telescopic, horizontal outlet

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	75	Without FAT	N/A	1.4301	408074
	75	With FAT	2,6 - 3,3 / 4,2	1.4404	408174
	75	Without FAT	N/A	1.4301	408075
	75	With FAT	2,8 - 4,4 / 4,5	1.4404	408175
	110	Without FAT	N/A	1.4301	408076
	110	With FAT	2,8 - 4,4 / 4,5	1.4404	408176
	110			1.4301	408077
	110			1.4404	408177
	110			1.4301	408078
	110			1.4404	408178
	110			1.4301	408079
	110			1.4404	408179

Accessories for ACO hygienic gully 157 → Page 102

Type of flange	Outlet diameter ϕ [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408080
	110	With FAT	2,8 - 4,4 / 4,5	1.4404	408180
	110	Without FAT	N/A	1.4301	408081
	110	With FAT	2,8 - 4,4 / 4,5	1.4404	408181
				1.4301	408082
				1.4404	408182
				1.4301	408083
				1.4404	408183

2

ACO hygienic gully 157 gully top, telescopic

Product information

Gully top can be combined with telescopic gully. Different gully

top type is available depending on floor structure.

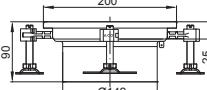
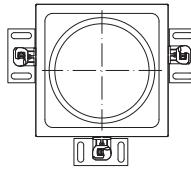
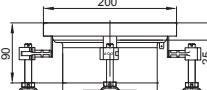
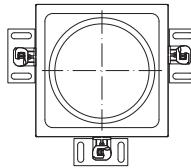
2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet

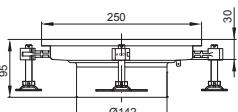
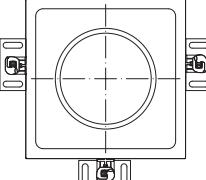
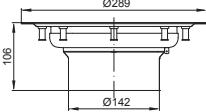
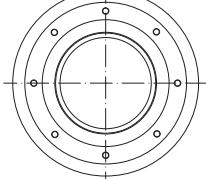
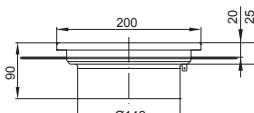
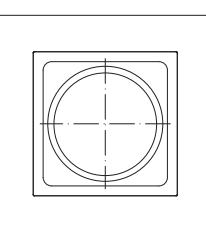
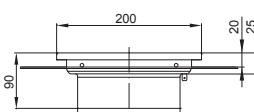
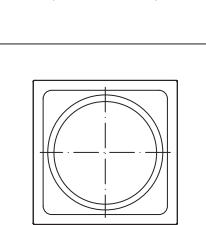


Order information

Gully top type	Gully top size [mm]	Material	Item number
 	200 x 200	1.4301	408208
 	200 x 200 with extended vertical edge	1.4301	446401
	200 x 200	1.4404	408218

Gratings for gully top 200 x 200 mm → Page 82

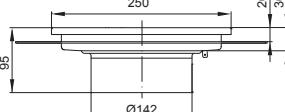
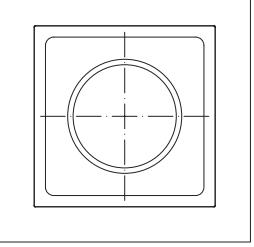
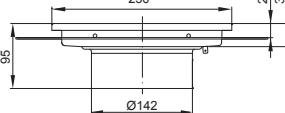
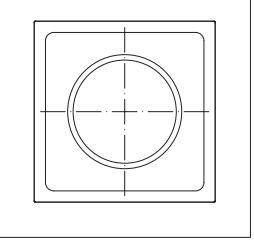
Accessories for ACO hygienic gully 157 → Page 102

Gully top type	Gully top size [mm]	Material	Item number
		1.4301	408248
	Standard edge 250 x 250	1.4404	408258
		1.4301	408240*
	Vinyl edge Ø289	1.4404	408250*
		1.4301	408241
	Extended edge 200 x 200	1.4404	408251
		1.4301	408244
	Extended edge with drainage holes 200 x 200	1.4404	408254

2

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 157
gully top, telescopic

Gully top type	Gully top size [mm]	Material	Item number
		1.4301	408245
	Extended edge 250 x 250	1.4404	408255
		1.4301	408246
	Extended edge with drainage holes 250 x 250	1.4404	408256

2

Gratings for gully top 250 x 250 mm → Page 88

Accessories for ACO hygienic gully 157 → Page 102

ACO hygienic gully 157 gully top, telescopic, round top

Product information

Gully top can be combined with telescopic gully. Different gully top type is available depending on floor structure.

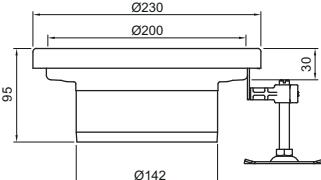
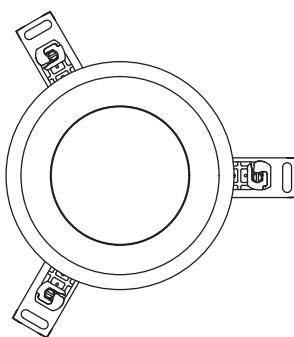
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings including slip resistant solution
- Adjustable EasyFix levelling feet



2

Order information

Gully top type	Gully top size \varnothing [mm]	Material	Item number
	230	1.4301	446750
	Standard edge	230	1.4404

ACO hygienic gully 157 raising piece, telescopic

Product information

Raising piece can be used for floor structures where multiple waterproofing is needed (heat insulation)

or where construction height of the slab needs to be increased.

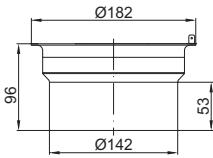
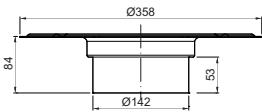
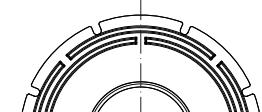
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Product benefits

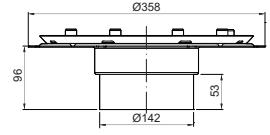
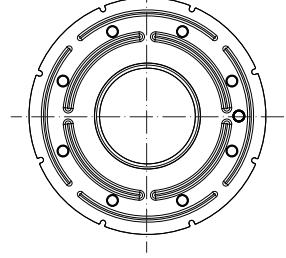
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Variety of flanges for membranes
- Telescopic friction ring included



Order information

Type of flange	Material	Item number
 	1.4301	408249
Location flange	1.4404	408259
	1.4301	408206
Adhesive bonding flange	1.4404	408216

Accessories for ACO hygienic gully 157 @ Page 102

Type of flange	Material	Item number
 	1.4301	408207
Mechanical clamping flange	1.4404	408217

2

ACO hygienic gully 218 fixed height, vertical outlet - square top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

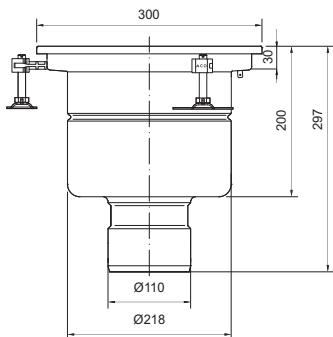
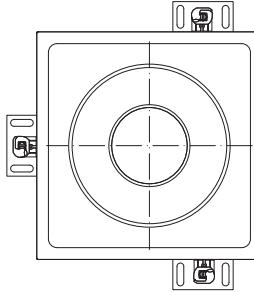
the gully body. Those gullies can be combined with different grates depending on requested load class.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	300 x 300	110	Without FAT	N/A	1.4301 408004
	300 x 300	110	With FAT	4.8 / 5.5	1.4404 408105
<hr/>					

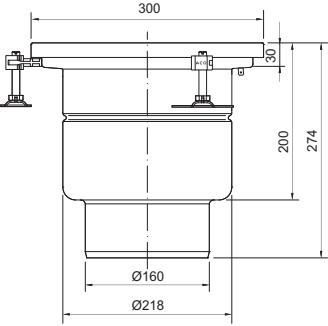
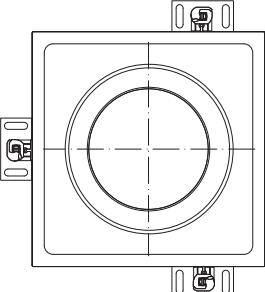
Gratings for gully top 300 x 300 mm → Page 92

Accessories for ACO hygienic gully 218 → Page 103

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	300 x 300 with extended vertical edge and PUR infill	110	With FAT 4.8 / 5.5	1.4301	445559
	300 x 300	160	Without FAT N/A	1.4301	408006
				1.4404	408106
			With FAT 5.0 / 5.5	1.4301	408007
				1.4404	408107

2

ACO hygienic gully 218
fixed height, vertical outlet - square top

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number	
 	300 x 300 with extended vertical edge and PUR infill	160	With FAT	5.0 / 5.5	1.4301	445560

2

Gratings for gully top 300 x 300 mm → Page 92

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 extended fixed height, vertical outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

the gully body. Those gullies can be combined with different grates depending on requested load class.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



2

Order information

Description	Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge						
	□300 □270				Without FAT	1.4301 446849
	416				N/A	1.4404 446851
extended foul air trap	300 x 300	110				1.4301 446848
				With FAT	6.5 / 9.5	1.4404 446850

ACO hygienic gully 218
extended fixed height, vertical outlet

Description	Top size [mm]	Outlet diameter [mm]	Foul air trap	Flow rate [l/s]	Item number	
					ø [mm]	Material
	waste filter basket	300 x 300	110	With FAT	6.5 / 4.8	1.4301 446941
	waste filter basket	300 x 300	160	With FAT	6.5 / 4.8	1.4301 446943
						1.4404 446942
						1.4404 446944

2

Gratings for gully top 300 x 300 mm → Page 92

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 fixed height, vertical outlet - round top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

the gully body. Those gullies can be combined with different grates depending on requested load class.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



2

Order information

Top diameter [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
300	110	Without FAT	N/A	1.4301	446752
300	110	With FAT	4.8 / 5.5	1.4404	446758
300	110	Without FAT	N/A	1.4301	446753
300	110	With FAT	4.8 / 5.5	1.4404	446759
300	160	Without FAT	N/A	1.4301	446754
300	160	With FAT	5.0 / 5.5	1.4404	446760
300	160	Without FAT	N/A	1.4301	446755
300	160	With FAT	5.0 / 5.5	1.4404	446761

Gratings for gully top ø 300 mm → Page 96

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 fixed height, horizontal outlet - square top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

the gully body. Those gullies can be combined with different grates depending on requested load class.

2

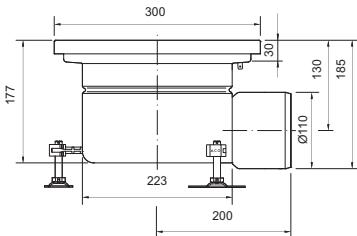
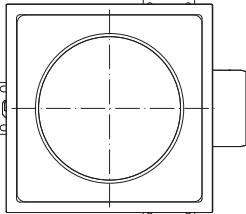
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge					
	300 x 300	Without FAT	N/A	1.4301	408012
	110			1.4404	408112
		With FAT	4,4 / 5	1.4301	408013
				1.4404	408113

Top size [mm]	Outlet diameter Ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number	
 	300 x 300 with extended vertical edge and PUR infill	110	With FAT	4,4 / 5	1.4301	445561

2

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 extended fixed height, horizontal outlet

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

the gully body. Those gullies can be combined with different grates depending on requested load class.

2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Description	Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
Standard edge						
	□300 □270					1.4301 447664
	300				Without FAT N/A	
extended foul air trap	300 x 300	110				1.4404 447666
	Ø218 312					1.4301 447663
				With FAT 6.5 / 8.8		1.4404 447665

Description	Top size [mm]	Outlet diameter Ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Item number
waste filter basket	300 x 300	110	With FAT	6.5 / 8.8	1.4301 446939
					1.4404 446940

2

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 fixed height, horizontal outlet - round top

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of

the gully body. Those gullies can be combined with different grates depending on requested load class.

2

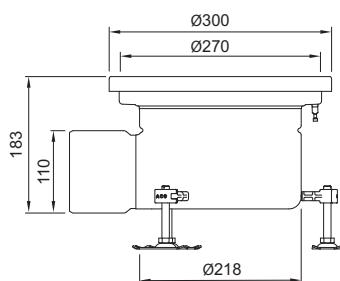
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Top diameter [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
					1.4301
Standard edge					
300	110	Without FAT	N/A	1.4404	446762
		With FAT	4.4 / 5	1.4301	446757
				1.4404	446763



ACO hygienic gully 218 telescopic, vertical outlet

Product information

Telescopic gully can be combined either with ACO gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

Gullies are equipped with flanges for connection of waterproof membrane.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included



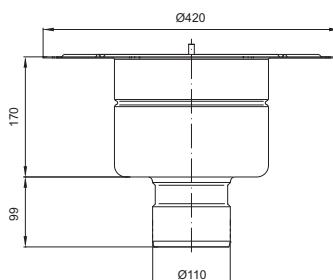
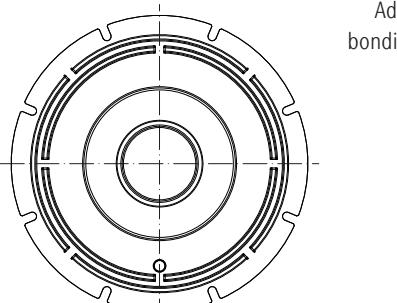
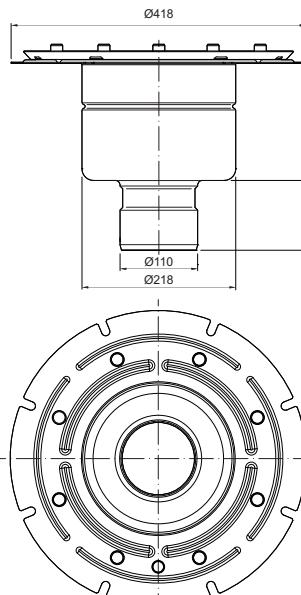
2

Order information

Type of flange	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	110	Without FAT	N/A	1.4301	408060
	110	With FAT	5 - 6,2 / 5,5	1.4404	408160
	110	Without FAT	N/A	1.4301	408061
	110	With FAT	5 - 6,2 / 5,5	1.4404	408161

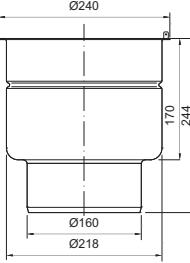
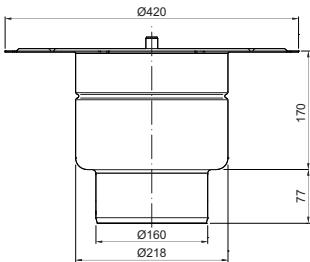
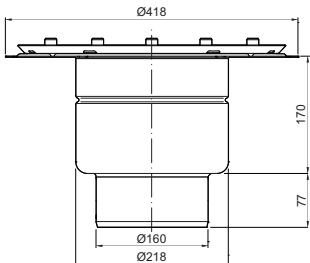
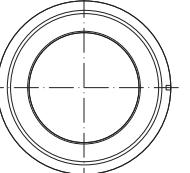
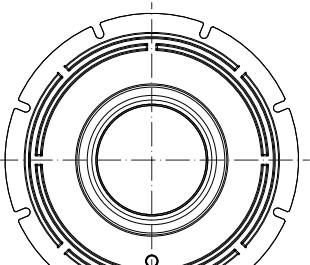
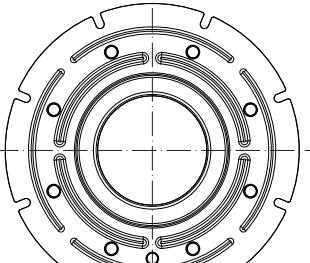
Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218
telescopic, vertical outlet

Type of flange	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408062
	110			1.4404	408162
		With FAT	5 - 6,2 / 5,5	1.4301	408063
				1.4404	408163
		Without FAT	N/A	1.4301	408064
	110			1.4404	408164
		With FAT	5 - 6,2 / 5,5	1.4301	408065
				1.4404	408165

2

Accessories for ACO hygienic gully 218 → Page 103

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
				1.4301	408066
Location flange	160	Without FAT	N/A		
				1.4301	408068
Adhesive bonding flange	160	Without FAT	N/A	1.4404	408168
				1.4301	408070
Mechanical clamping flange	160	Without FAT	N/A	1.4404	408170
				1.4301	408067
Location flange	160	With FAT	5 - 6,2 / 5,5		
				1.4404	408169
Adhesive bonding flange	160	With FAT	5 - 6,2 / 5,5	1.4301	408069
				1.4404	408169
Mechanical clamping flange	160	With FAT	5 - 6,2 / 5,5	1.4301	408071
				1.4404	408171

2

ACO hygienic gully 218 telescopic, horizontal outlet

Product information

Telescopic gully can be combined either with gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

Gullies are equipped with flanges for connection of waterproof membrane.

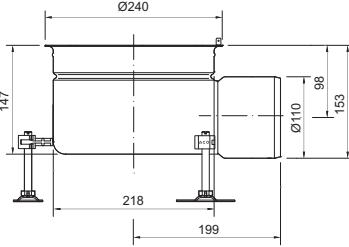
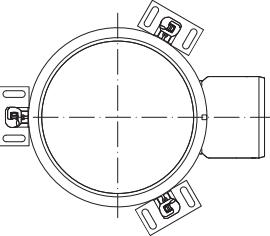
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Product benefits

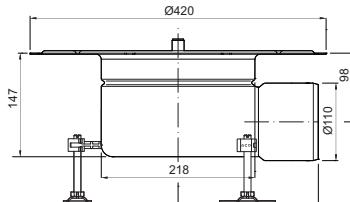
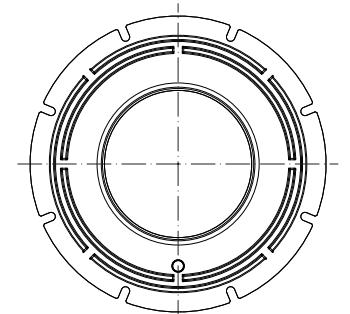
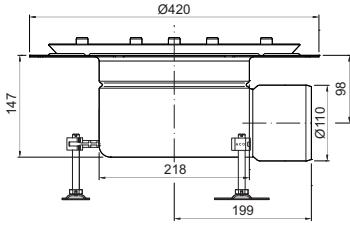
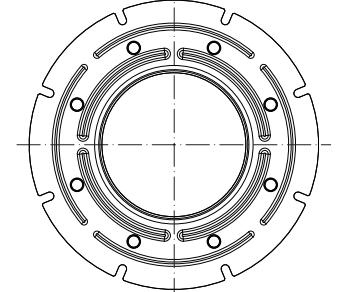
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Telescopic friction ring included
- Adjustable EasyFix levelling feet



Order information

Type of flange	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	110	Without FAT	N/A	1.4301	408084
	110	With FAT	4,4 - 5,4 / 5	1.4404	408184
				1.4301	408085
				1.4404	408185

Accessories for ACO hygienic gully 218 → Page 103

Type of flange	Outlet diameter \varnothing [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
		Without FAT	N/A	1.4301	408086
	110			1.4404	408186
		With FAT	4,4 - 5,4 / 5	1.4301	408087
	110			1.4404	408187
		Without FAT	N/A	1.4301	408088
	110			1.4404	408188
		With FAT	4,4 - 5,4 / 5	1.4301	408089
	110			1.4404	408189

2

ACO hygienic gully 218 gully top, telescopic

Product information

Telescopic gully can be combined either with gully top or ACO channel in most flooring constructions.

Telescopic solution enables height and rotational adjustment of connected gully top or channel.

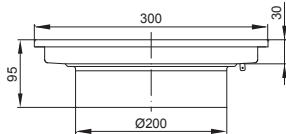
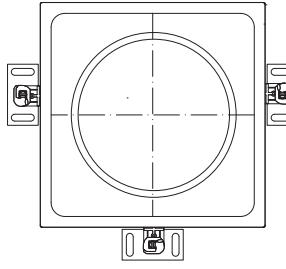
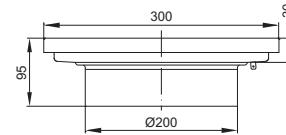
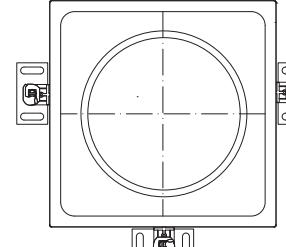
Gullies are equipped with flanges for connection of waterproof membrane.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet

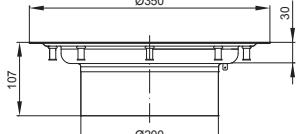
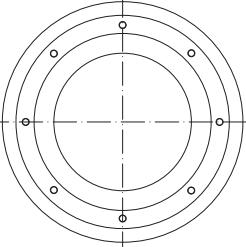
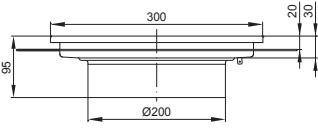
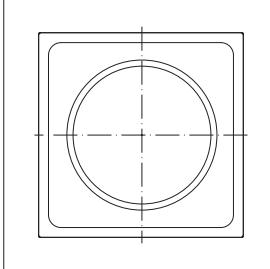
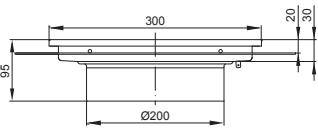
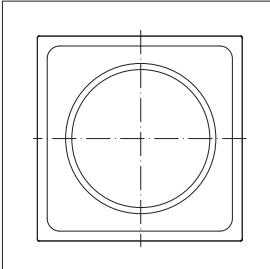


Order information

Gully Top type	Gully Top size [mm]	Material	Item number
		1.4301	408228
	Standard edge 300 x 300		1.4404 408238
			
	Standard edge 300 x 300 with extended vertical edge	1.4301	446402

Gratings for gully top 300 x 300 mm → Page 92

Accessories for ACO hygienic gully 218 → Page 103

Gully Top type	Gully Top size [mm]	Material	Item number
 	Vinyl edge Ø350	1.4301	408242*
		1.4404	408252*
 	Extended edge 300 x 300	1.4301	408243
		1.4404	408253
 	Extended edge with drainage holes 300 x 300	1.4301	408247
		1.4404	408257

2

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

Gratings for gully top 300 x 300 mm → Page 92
Gratings for vinyl top Ø222 mm → Page 100

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 218 gully top, telescopic, round top

Product information

Gully top can be combined with telescopic gully. Different gully top type is available depending on floor structure.

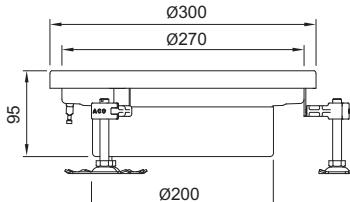
2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Protective cover available. See page 264 for more details
- Tested and certified according to EN 1253
- Wide range of gratings including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

Gully top type	Gully top size \varnothing [mm]	Material	Item number
	300	1.4301	446764
Standard edge	300	1.4404	446765

ACO hygienic gully 218 raising piece, telescopic

Product information

Raising piece can be used for floor structures where multiple waterproofing is needed

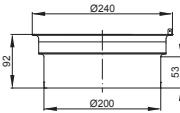
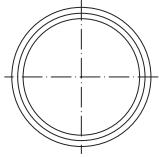
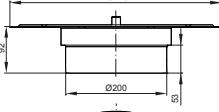
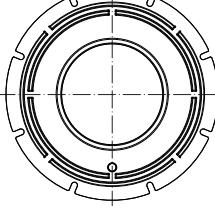
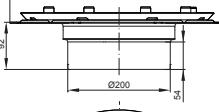
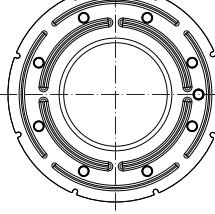
(heat insulation) or where construction height of the slab needs to be increased.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Variety of flanges for membranes
- Telescopic friction ring included



2

Type of flange	Material	Item number
 	1.4301	408209
Location flange		
 	1.4404	408219
Adhesive bonding flange		
 	1.4301	408227
Mechanical clamping flange		
	1.4404	408237

Accessories for ACO hygienic gully 218 → Page 103

ACO hygienic gully 315

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

2 pieces are required for ordering grating for ACO gully high capacity.



2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
400 x 400	160	Without FAT	N/A	1.4301	446845
400 x 400	160	With FAT	9.5 / 20	1.4404	446847
471	160			1.4301	446844
630	315			1.4404	446846

ACO hygienic gully 440

Product information

Fixed height gully can be specified as a point drainage in areas where waterproofing is independent of the gully body.

2 pieces are required for ordering grating for ACO gully high capacity.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 264 for more details



2

Top size [mm]	Outlet diameter ø [mm]	Foul air trap	Flow rate EN-1253-1 / Direct [l/s]	Material	Item number
	600 x 600	Without FAT	N/A	1.4301	446396
	200			1.4404	446412
		With FAT	12 / 32	1.4301	446397
				1.4404	446413

ACO gully EG150 telescopic, vertical outlet

Product information

ACO gully EG150 can be combined with ACO channel with outlet diameter 110 mm.

Foul air trap needs to be ordered separately.

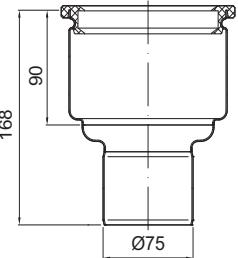
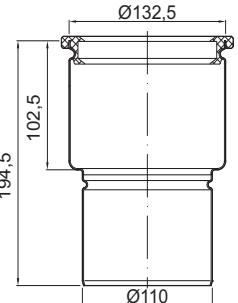
2

Product benefits

- Stainless steel construction for durability and long life



Order information

	FAT	Material	Item number
	Without FAT	1.4301	405066*
		1.4404	402663*
	Without FAT	1.4301	408805*
		1.4404	405312*

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO gully EG150 telescopic, horizontal outlet

Product information

ACO gully EG150 can be combined with ACO channel with outlet diameter 110 mm.

Foul air trap needs to be ordered separately.

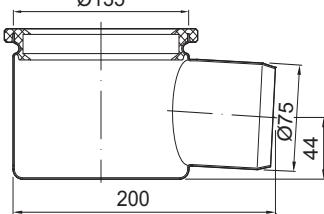
Product benefits

- Stainless steel construction for durability and long life



2

Order information

	FAT	Material	Item number
	Without FAT	1.4301	406677*
		1.4404	405311*

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

Accessories for ACO gully EG150 → Page <?>

Gratings for gully top 200x200

Product information

Variety of grate types is available depending on application and requested load class.

For applications with high hygienic demands ladder grate or cast grate should be selected.

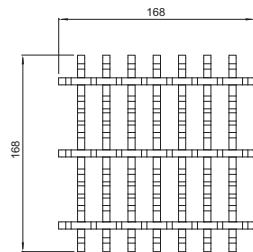
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

2

Order information

ACO hygienic frameless ladder grating



Load class

M 125

Slip resistant

Yes

Material

1.4301

Item number

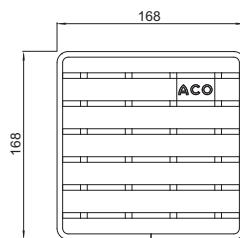
446264

1.4404

446265

Note: Surface electropolished

ACO hygienic ladder grating

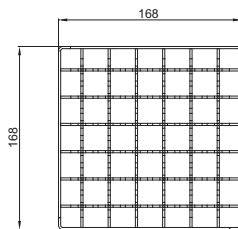
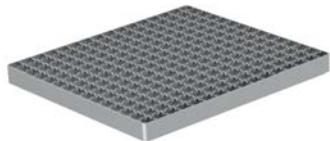


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	416912
		1.4404	416913
M 125	Yes	1.4301	408093
		1.4404	408193
N 250	No	1.4301	408043
		1.4404	408143

Note: Surface electropolished

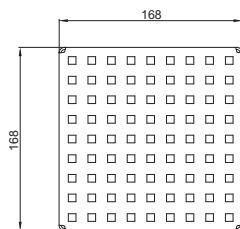
2

ACO mesh grating



Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301	408090*
		1.4404	408190*
	No	1.4301	408091*
		1.4404	408191*

ACO quadrato grating



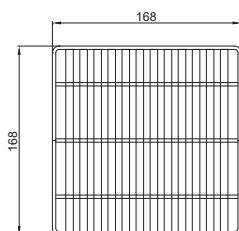
Load class	Slip resistant	Material	Item number
L 15	No	1.4301	408092*
		1.4404	408192*

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 142 – fixed height → Page 22, 24
ACO hygienic gully 142 – gully top, telescopic → Page 32

ACO hygienic gully 157 – fixed height → Page 36,, 41
ACO hygienic gully 157 – gully top - telescopic → Page 52
ACO modular slot channel 20 → Page 183

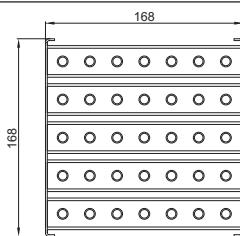
ACO heelsafe grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301 1.4404	408022* 408122*

2

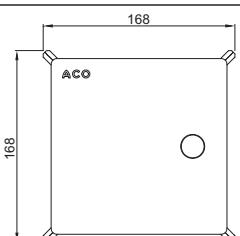
ACO multi-slot 5 grating



Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301 1.4404	408094* 408194*

Note: Surface electropolished

ACO hygienic slot cover



R 50	Yes	1.4301 1.4404	445780 445781
M 125	Yes	1.4301 1.4404	445782 445783

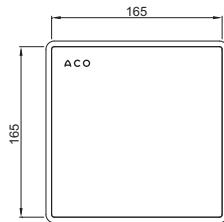
Note: Top surface sandblasted

ACO odour proof gully cover

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 142 – fixed height → Page 22, 24
ACO hygienic gully 142 – gully top, telescopic → Page 32

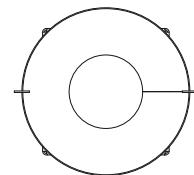
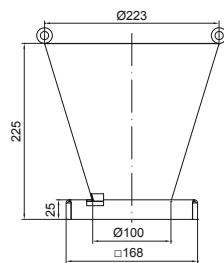
ACO hygienic gully 157 – fixed height → Page 36., 41
ACO hygienic gully 157 – gully top - telescopic → Page 52
ACO modular slot channel 20 → Page 183



Load class	Slip resistant	Material	Item number
R 50	No	1.4404	445398*
M 125	No	1.4404	445605*

For ACO vacuum handle, please go to page 91

ACO tundish for gully top



Description	Material	Item number
ACO tundish for gully top 200 x 200	1.4301	415918

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

Gratings for gully top ø 230 mm

Product information

Variety of grate types is available depending on application and requested load class.

For applications with high hygienic demands ladder grate or cast grate should be selected.

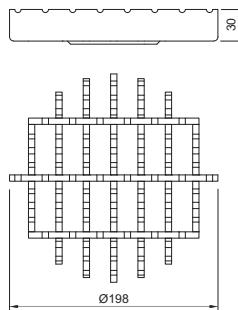
2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Range of gratings suitable to load class R 50 and M 125 (EN 1253)
- Slip resistant solution available

Order information

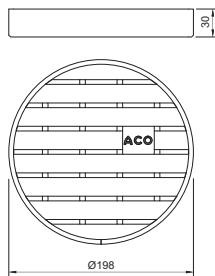
ACO hygienic frameless ladder grating - round



Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	446780
		1.4404	446781
M 125	Yes	1.4301	446784
		1.4404	446785

Note: Surface electropolished

ACO hygienic ladder grating - round

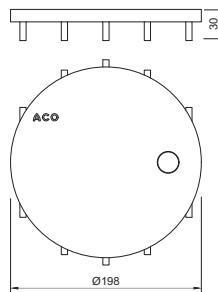


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	447761
		1.4404	447762
M 125	Yes	1.4301	446776
		1.4404	446777

Note: Surface electropolished

2

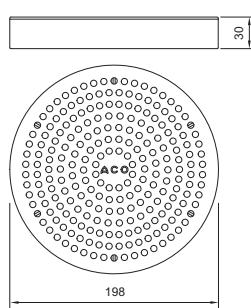
ACO hygienic slot cover - round



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	446788
		1.4404	446789

Note: Top surface sandblasted

ACO perforated grating - round



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	447728
		1.4404	447736

Note: Surface electropolished

Gratings for gully top 250x250

Product information

Variety of grate types is available depending on application and requested load class

For applications with high hygienic demands ladder grate or cast grate should be selected.

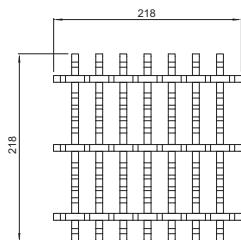
2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

Order information

ACO hygienic frameless ladder grating



Load class

Slip resistant

Material

Item number

M 125

Yes

1.4301

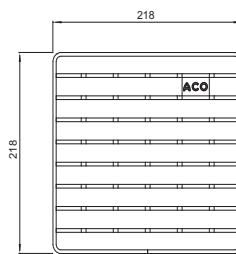
446268

1.4404

446269

Note: Surface electropolished

ACO hygienic ladder grating

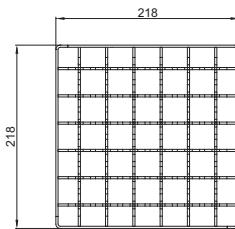
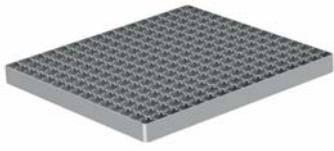


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	416914
		1.4404	416915
M 125	Yes	1.4301	408028
		1.4404	408128
N 250	No	1.4301	408044
		1.4404	408144

Note: Surface electropolished

2

ACO mesh grating

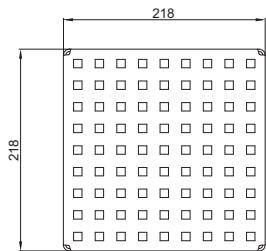


Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301	408095*
		1.4404	408195*
	No	1.4301	408096*
		1.4404	408196*

Note: Surface electropolished

Gratings
for gully top 250x250

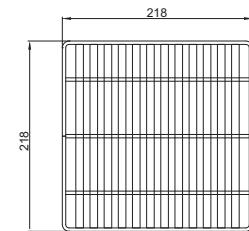
ACO quadrato grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	408097*
		1.4404	408197*

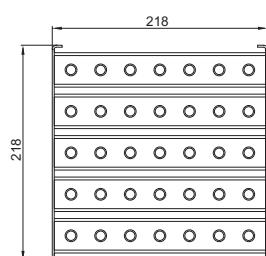
2

ACO heelsafe grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	408031*
		1.4404	408131*

ACO multi-slot 5 grating



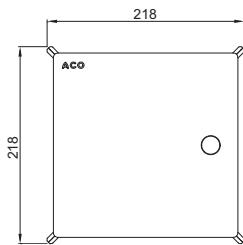
Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301	408033*
		1.4404	408133*

Note: Surface electropolished

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 157 – fixed height → Page 36, 41
ACO hygienic gully 157 – gully top, telescopic → Page 52

ACO hygienic slot cover

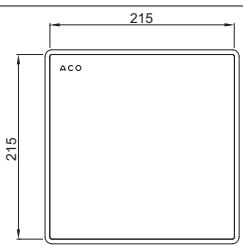


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	445784
		1.4404	445785
M 125	Yes	1.4301	445786
		1.4404	445787

Note: Top surface sandblasted

2

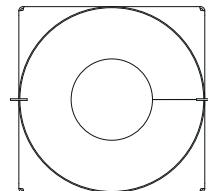
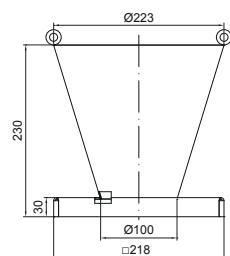
ACO odour proof gully cover



Load class	Slip resistant	Material	Item number
R 50	No	1.4404	445399*
M 125	No	1.4404	445607*

For ACO vacuum handle, please go to page 92

ACO tundish for gully top



Description	Material	Item number
ACO tundish for gully top 250 x 250	1.4301	413546

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 157 – fixed height → Page 36, 41
ACO hygienic gully 157 – gully top, telescopic → Page 52

Gratings for gully top 300x300

Product information

Variety of grate types is available depending on application and requested load class.

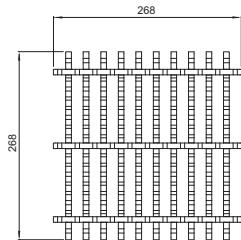
For applications with high hygienic demands ladder grate or cast grate should be selected.

2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

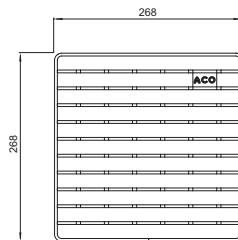
ACO hygienic frameless ladder grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	446272
		1.4404	446273

Note: Surface electropolished

ACO hygienic ladder grating

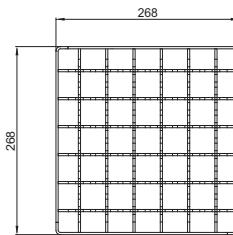
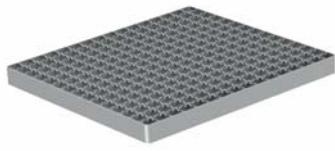


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	416916
		1.4404	416917
M 125	Yes	1.4301	408037
		1.4404	408137
N 250	No	1.4301	408045
		1.4404	408145

Note: Surface electropolished

2

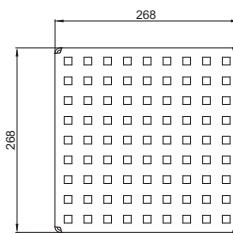
ACO mesh grating



Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301	408034
		1.4404	408134
	No	1.4301	408035*
		1.4404	408135*

Note: Surface electropolished

ACO quadrato grating



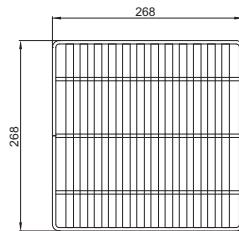
Load class	Slip resistant	Material	Item number
L 15	No	1.4301	408036*
		1.4404	408136*

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 218 – fixed height → Page 58, 69
ACO hygienic gully 218 – gully top, telescopic → Page 74

Gratings
for gully top 300x300

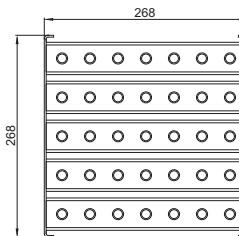
ACO heelsafe grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	408040*
		1.4404	408140*

2

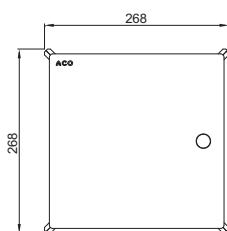
ACO multi-slot 5 grating



Load class	Slip resistant	Material	Item number
L 15	Yes	1.4301	408042*
		1.4404	408142*

Note: Surface electropolished

ACO hygienic slot cover



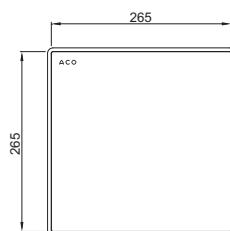
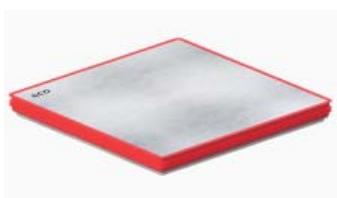
Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	445788
		1.4404	445789
M 125	Yes	1.4301	445790
		1.4404	445791

Note: Top surface sandblasted

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 218 – fixed height → Page 58, 69
ACO hygienic gully 218 – gully top, telescopic → Page 74

ACO odour proof gully cover

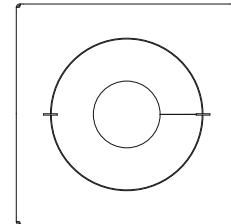
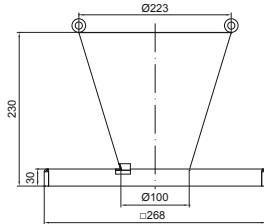


Load class	Slip resistant	Material	Item number
R 50	No	1.4404	445400*
M 125	No	1.4404	445609*

For ACO vacuum handle, please go to page 93

2

ACO tundish for gully top



Description	Material	Item number
ACO tundish for gully top 300 x 300	1.4301	413547

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 218 – fixed height → Page 58, 69
ACO hygienic gully 218 – gully top, telescopic → Page 74

Gratings for gully top ø 300 mm

Product information

Variety of grate types is available depending on application and requested load class.

For applications with high hygienic demands ladder grate or cast grate should be selected.

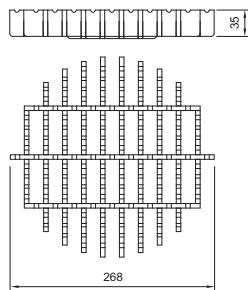
Product benefits

2

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Range of gratings suitable to load class R 50 and M 125 (EN 1253)
- Slip resistant solution available

Order information

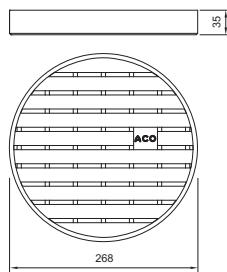
ACO hygienic frameless ladder grating - round



Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	446782
		1.4404	446783
M 125	Yes	1.4301	446786
		1.4404	446787

Note: Surface electropolished

ACO hygienic ladder grating - round

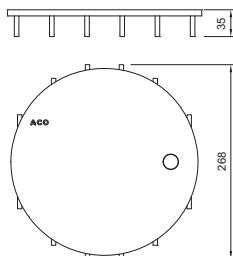


Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	447763
		1.4404	447764
M 125	Yes	1.4301	446778
		1.4404	446779

Note: Surface electropolished

2

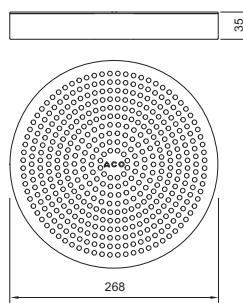
ACO hygienic slot cover - round



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	446790
		1.4404	446791

Note: Top surface sandblasted

ACO perforated grating - round



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	447732
		1.4404	447740

Note: Surface electropolished

Gratings for vinyl top ø170

Product information

Variety of grate types is available depending on application and requested load class.

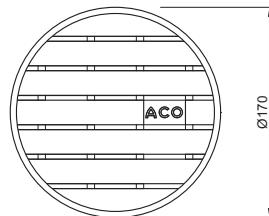
For applications with high hygienic demands ladder grates or cast grates should be selected.

2

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253
- Stainless steel construction for durability and long life
- Range of gratings suitable to load class L 15 and M 125 (EN 1253)
- Slip resistant solution available

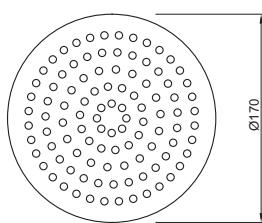
ACO ladder grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	97146
		1.4404	97367

Note: Surface electropolished

ACO perforated grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	97152*
		1.4404	97369*

ACO odour proof gully cover

For ACO odour proof gully cover, please contact our Sales/Technical department.

Gratings for vinyl top ø222

Product information

Variety of grate types is available depending on application and requested load class.

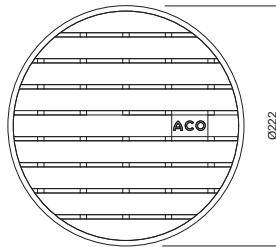
For applications with high hygienic demands ladder grate or cast grate should be selected.

Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Fits to stainless steel gully, fully compliant to EN 1253
- Stainless steel construction for durability and long life
- Range of gratings suitable to load class L 15 and M 125 (EN 1253)
- Slip resistant solution available

2

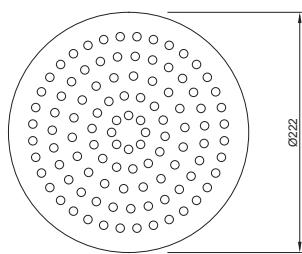
ACO ladder grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	97148
		1.4404	97388

Note: Surface electropolished

ACO perforated grating



Load class	Slip resistant	Material	Item number
L 15	No	1.4301	97153*
		1.4404	97390*

ACO odour proof gully cover

For ACO odour proof gully cover, please contact our Sales/Technical department.

* Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13, 44 not applied.

ACO hygienic gully 218 – gully top, telescopic → Page 77

Gratings for ACO hygienic gullies 315 and 440

Product information

Variety of grate types is available depending on application and requested load class.

For applications with high hygienic demands ladder grate or cast grate should be selected.

2 pieces are required for ordering grating for ACO hygienic gully high capacity.

Product benefits

- Fully pickled and passivated
- Slip resistant solution available

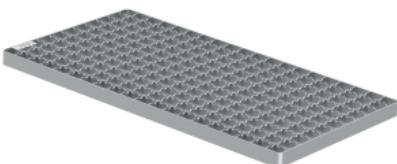
2

ACO hygienic ladder grating



Designation	Length [mm]	Width [mm]	Height [mm]	Load class	Slip resistant	Material	Item number
ACO gully 315	184	368	30	R 50	Yes	1.4301	447766
						1.4404	447767
ACO gully 440	284	568	30	L 15	Yes	1.4301	446400
						1.4404	446416

ACO mesh grating

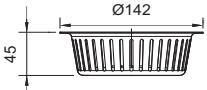
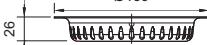
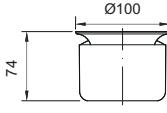
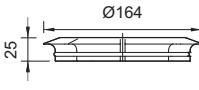
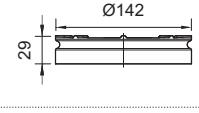
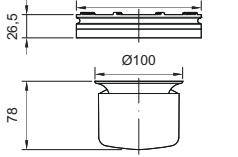
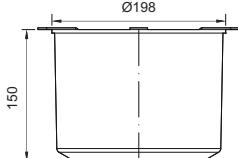
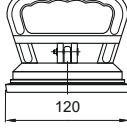
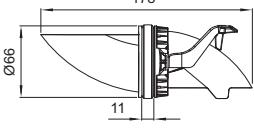


Designation	Length [mm]	Width [mm]	Height [mm]	Load class	Slip resistant	Material	Item number
ACO gully 315	184	368	30	L 15	Yes	1.4301	447825
						1.4404	447822
ACO gully 440	284	568	30			1.4301	447823
						1.4404	447824

ACO hygienic gully 315 – fixed height → Page 78
ACO hygienic gully 440 – fixed height → Page 79

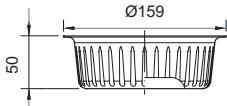
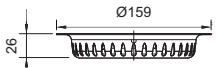
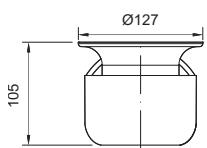
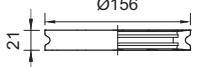
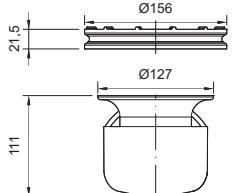
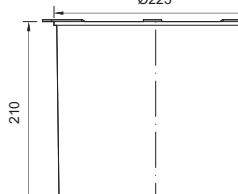
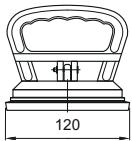
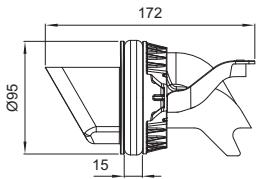
Accessories

Accessories for ACO hygienic gully 142

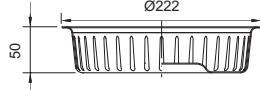
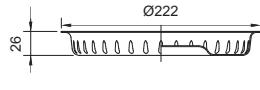
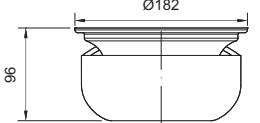
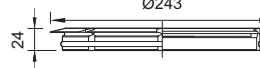
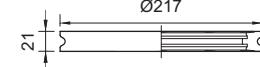
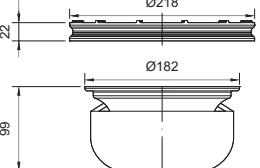
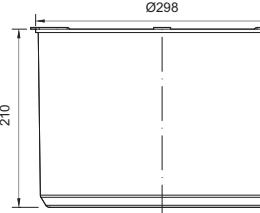
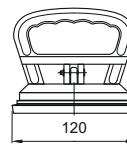
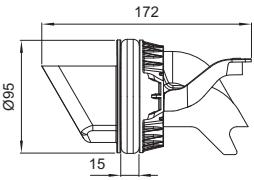
Description	Used with	Material	Item number
 ACO silt basket ■ Stainless steel ■ 0,4 litre capacity	■ ACO hygienic gully 142, telescopic □ Vertical or horizontal	1.4301 1.4404	416900 416901
 ACO silt basket ■ Stainless steel ■ 0,3 litre capacity	■ ACO hygienic gully 142, fixed height □ Vertical or horizontal	1.4301 1.4404	416906 416907
 ACO hygienic foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO hygienic gully 142 □ Fixed height □ Telescopic	1.4301 1.4404	414741 414841
 ACO friction ring ■ SBR (Styrene-butadiene rubber)	■ ACO hygienic gully 142 □ Telescopic	SBR	414742
 ACO standard foul air trap support ■ NBR (Acryl nitrile-butadiene rubber)	■ ACO hygienic gully 142 □ Fixed height □ Telescopic	NBR	414743
 ACO fire resistant kit for gully 142/DN 70 □ Fixed height, vertical □ Telescopic, vertical	■ ACO hygienic gully 142 □ Fixed height, vertical □ Telescopic, vertical	1.4404 / NBR	416930
 ACO fire resistant kit for gully 142/DN 100 □ Fixed height, vertical □ Telescopic, vertical	■ ACO hygienic gully 142 □ Fixed height, vertical □ Telescopic, vertical	1.4404 / NBR	416931
 ACO vacuum handle	■ ACO odour proof gully cover	Aluminium	445622
 ACO foul air trap for horizontal outlet DN70 and DN100 ■ PP (Polypropylene plastic) ■ NBR (Acryl nitrile-butadiene rubber)	■ ACO hygienic gully 142, horizontal □ Fixed height or telescopic	PP / NBR	9575.30.15

2

Accessories for ACO hygienic gully 157

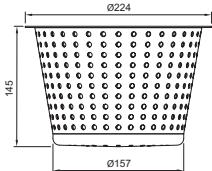
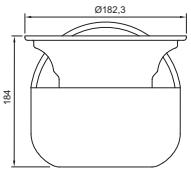
	Description	Used with	Material	Item number
2	 <p>ACO silt basket <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> 0,4 litre capacity</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157, vertical <input type="checkbox"/> Fixed height or telescopic	1.4301 1.4404	416904 416905
	 <p>ACO silt basket <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> 0,3 litre capacity</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157, horizontal <input type="checkbox"/> Fixed height or telescopic	1.4301 1.4404	416906 416907
	 <p>ACO hygienic foul air trap <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> Water seal 50 mm</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157 <input type="checkbox"/> Telescopic	1.4301 1.4404	408200 408210
	 <p>ACO friction ring <input checked="" type="checkbox"/> SBR (Styrene-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157 <input type="checkbox"/> Telescopic	SBR	408205
	 <p>ACO standard foul air trap support <input checked="" type="checkbox"/> NBR (Acryl nitrile-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157 <input type="checkbox"/> Fixed height <input type="checkbox"/> Telescopic	NBR	408201
	 <p>ACO fire resistant kit for gully 157/DN 70 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical	1.4404 / NBR	416932
	 <p>ACO fire resistant kit for gully 157/DN 100 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical	1.4404 / NBR	416933
	 <p>ACO vacuum handle</p>	<input checked="" type="checkbox"/> ACO odour proof gully cover	Aluminium	445622
	 <p>ACO foul air trap for horizontal outlet DN100 <input checked="" type="checkbox"/> PP (Polypropylene plastic) <input checked="" type="checkbox"/> NBR (Acryl nitrile-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 157, horizontal <input type="checkbox"/> Fixed height or telescopic	PP / NBR	445845

Accessories for ACO hygienic gully 218

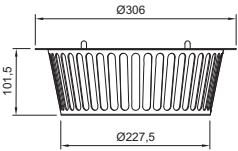
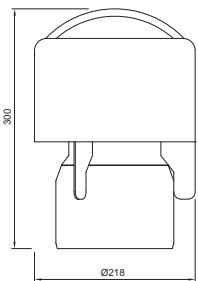
Description	Used with	Material	Item number
 <p>ACO silt basket <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> 1,4 litre capacity</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218, vertical <input type="checkbox"/> Fixed height or telescopic	1.4301 1.4404	416908 416909
 <p>ACO silt basket <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> 0,7 litre capacity</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218, horizontal <input type="checkbox"/> Fixed height or telescopic	1.4301 1.4404	416910 416911
 <p>ACO hygienic foul air trap <input checked="" type="checkbox"/> Stainless steel <input checked="" type="checkbox"/> Water seal 50 mm</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218 <input type="checkbox"/> Fixed height <input type="checkbox"/> Telescopic	1.4301 1.4404	408220 408230
 <p>ACO friction ring <input checked="" type="checkbox"/> SBR (Styrene-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218 <input type="checkbox"/> Telescopic	SBR	408225
 <p>ACO standard foul air trap support <input checked="" type="checkbox"/> NBR (Acryl nitrile-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218 <input type="checkbox"/> Fixed height <input type="checkbox"/> Telescopic	NBR	408221
 <p>ACO fire resistant kit for gully 218/DN 110 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical	1.4404 / NBR	416934
 <p>ACO fire resistant kit for gully 218/DN 160 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218 <input type="checkbox"/> Fixed height, vertical <input type="checkbox"/> Telescopic, vertical	1.4404 / NBR	416935
 <p>ACO vacuum handle</p>	<input checked="" type="checkbox"/> ACO odour proof gully cover	Aluminium	445622
 <p>ACO foul air trap for horizontal outlet DN100 <input checked="" type="checkbox"/> PP (Polypropylene plastic) <input checked="" type="checkbox"/> NBR (Acryl nitrile-butadiene rubber)</p>	<input checked="" type="checkbox"/> ACO hygienic gully 218, horizontal <input type="checkbox"/> Fixed height or telescopic	PP / NBR	9515.30.15

2

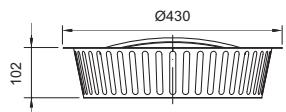
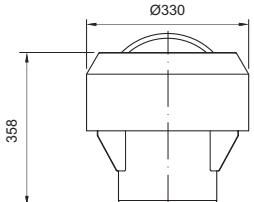
Accessories for ACO hygienic gully 218

Description	Used with	Material	Item number
 ACO waste filter basket ■ Stainless steel	■ ACO hygienic gully 218 extended fixed height, waste filter basket □ Vertical or horizontal	1.4301 1.4404	446945 446946
 ACO extended hygienic foul air trap ■ Stainless steel	■ ACO hygienic gully 218 extended fixed height, extended foul air trap □ Vertical or horizontal	1.4301 1.4404	447807 447808

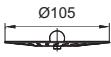
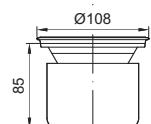
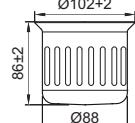
Accessories for ACO hygienic gully 315

Description	Used with	Material	Item number
 ACO silt basket ■ Stainless steel	■ ACO hygienic gully 315 □ Fixed height	1.4301	447681
		1.4404	447682
 ACO hygienic foul air trap ■ Stainless steel	■ ACO hygienic gully 315 □ Fixed height	1.4301	447673
		1.4404	447674

Accessories for ACO hygienic gully 440

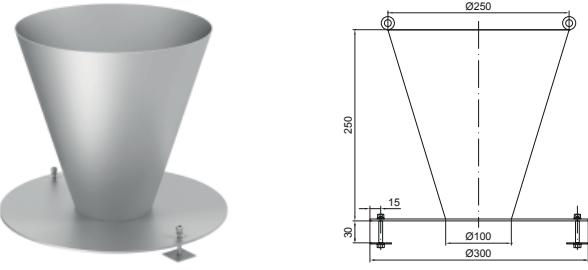
Description	Used with	Material	Item number
 ACO silt basket ■ Stainless steel	■ ACO hygienic gully 440 □ Fixed height	1.4301	446399
		1.4404	446415
 ACO hygienic foul air trap ■ Stainless steel	■ ACO hygienic gully 440 □ Fixed height	1.4301	446398
		1.4404	446414

Accessories for ACO gully EG150

Description	Used with	Material	Item number
 Sieve (for outlet 110 mm) ■ Stainless steel	<ul style="list-style-type: none"> ■ ACO slot channel 20 ■ ACO modular box channel 125 ■ ACO modular box channel 200 ■ ACO modular slot channel 20 	1.4301 1.4404	97235 97285
 Foul air trap ■ Stainless steel ■ Water seal 50 mm	<ul style="list-style-type: none"> ■ ACO slot channel 20 ■ ACO modular box channel 125 ■ ACO modular box channel 200 ■ ACO modular slot channel 20 	1.4301 1.4404	97217 97267
 Silt basket ■ Stainless steel	<ul style="list-style-type: none"> ■ ACO slot channel 20 ■ ACO modular box channel 125 ■ ACO modular box channel 200 ■ ACO modular slot channel 20 ■ Don't combine with FAT ■ Suitable with P-Trap (ACO pipe chapter) 	1.4301 1.4404	409190 409189

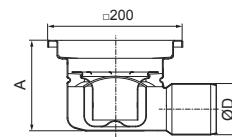
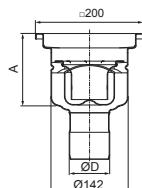
2

ACO tundish portable

Description	Material	Item number
 ACO tundish portable ■ Stainless steel	1.4301	415821

Flow rates and construction heights

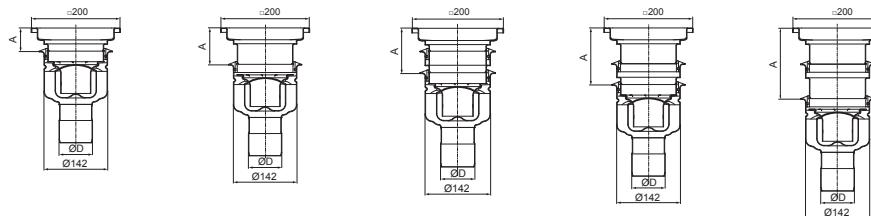
ACO hygienic gully 142 – fixed height



Outlet diameter	Outlet position	Flow rate [l/s]	Outlet diameter	Outlet position	Flow rate [l/s]
øD		A = 135 [mm]	øD		A = 135 [mm]
75	Vertical	1.4	75	Horizontal	1.4
110	Vertical	1.6	110	Horizontal	1.6

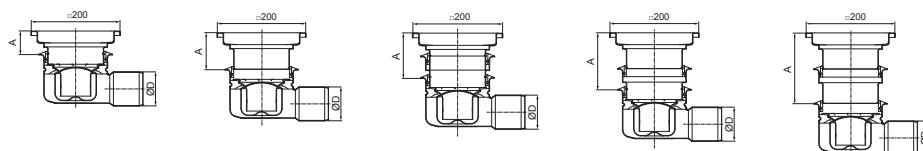
2

ACO hygienic gully 142 – telescopic, vertical



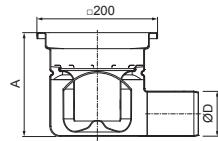
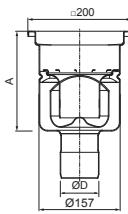
Outlet diameter	Outlet position	Flow rate [l/s]				
øD		A = 52 [mm]	A = 82 [mm]	A = 97 [mm]	A = 127 [mm]	A = 157 [mm]
75	Vertical	1.4	1.6	1.6	1.7	1.8
110	Vertical	1.6	1.8	1.8	1.9	2.0

ACO hygienic gully 142 – telescopic, horizontal



Outlet diameter	Outlet position	Flow rate [l/s]				
øD		A = 52 [mm]	A = 82 [mm]	A = 97 [mm]	A = 127 [mm]	A = 157 [mm]
75	Horizontal	1.4	1.6	1.6	1.7	1.8
110	Horizontal	1.6	1.8	1.8	1.9	2.0

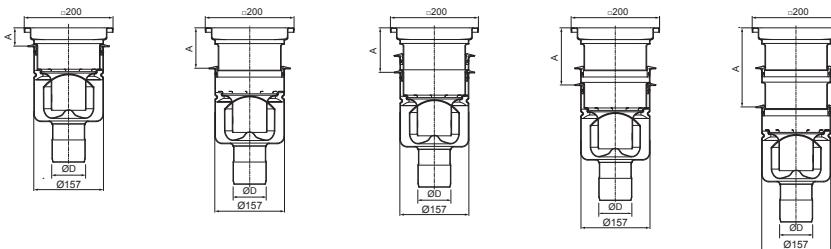
ACO hygienic gully 157 – fixed height



Outlet diameter	Outlet position	Flow rate [l/s]	Outlet diameter	Outlet position	Flow rate [l/s]
øD		A = 193 [mm]	øD		A = 170 [mm]
75	Vertical	2.7	75	Horizontal	2.6
110	Vertical	3.5	110	Horizontal	2.8

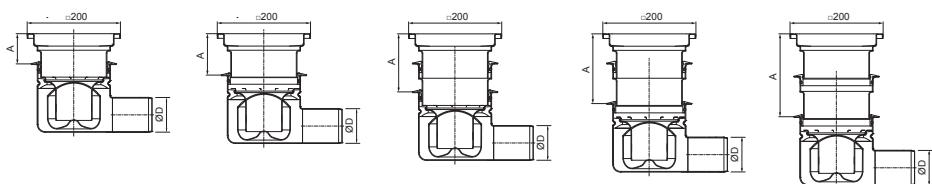
2

ACO hygienic gully 157 – telescopic, vertical



Outlet diameter	Outlet position	Flow rate [l/s]				
øD		A = 65 [mm]	A = 91 [mm]	A = 125 [mm]	A = 153 [mm]	A = 180 [mm]
75	Vertical	2.7	3.0	3.0	3.1	3.3
110	Vertical	3.5	4.0	4.1	4.2	4.4

ACO hygienic gully 157 – telescopic, horizontal



Outlet diameter	Outlet position	Flow rate [l/s]				
øD		A = 52 [mm]	A = 82 [mm]	A = 97 [mm]	A = 127 [mm]	A = 157 [mm]
75	Horizontal	2.6	2.9	3.0	3.1	3.3
110	Horizontal	2.8	3.3	3.6	4.0	4.4

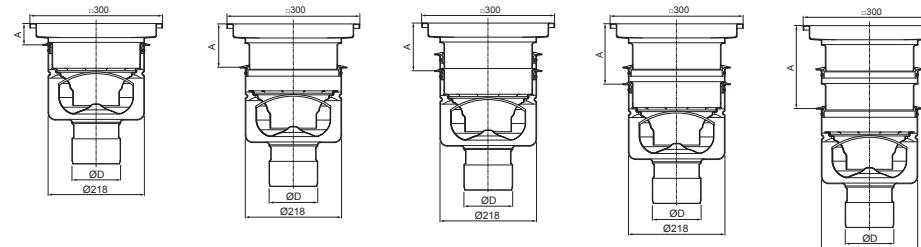
ACO hygienic gully 218 – fixed height



Outlet diameter	Outlet position	Flow rate [l/s]	Outlet diameter	Outlet position	Flow rate [l/s]
øD		A = 200 [mm]	øD		A = 177 [mm]
110	Vertical	5.0	110	Horizontal	4.4
160	Vertical	5.0	-	-	-

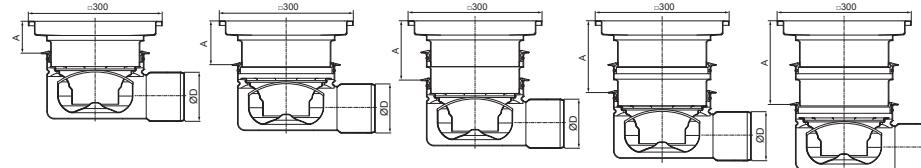
2

ACO hygienic gully 218 – telescopic, vertical



Outlet diameter	Outlet position	Flow rate [l/s]			
øD	A = 65 [mm]	A = 91 [mm]	A = 125 [mm]	A = 153 [mm]	A = 180 [mm]
110	Vertical	5.0	5.5	5.6	5.8
160	Vertical	5.0	5.5	5.6	5.8

ACO hygienic gully 218 – telescopic, horizontal



Outlet diameter	Outlet position	Flow rate [l/s]			
øD	A = 72 [mm]	A = 98 [mm]	A = 132 [mm]	A = 156 [mm]	A = 187 [mm]
110	Horizontal	4.4	4.6	4.8	4.9



3

ACO
Channel

COLLECT:
Collect and remove



ACO Channel

Introduction

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ACO box channel

ACO slot channel

ACO modular channel

ACO design channel

Flow rates and Construction heights



Discover more in a 3D environment:
buildingdrainage.aco/products

ACO channel
online information



Introduction

Hygienic design

ACO offers sustainable, integrated drainage systems which are designed to protect your business, the environment and ultimately public health.

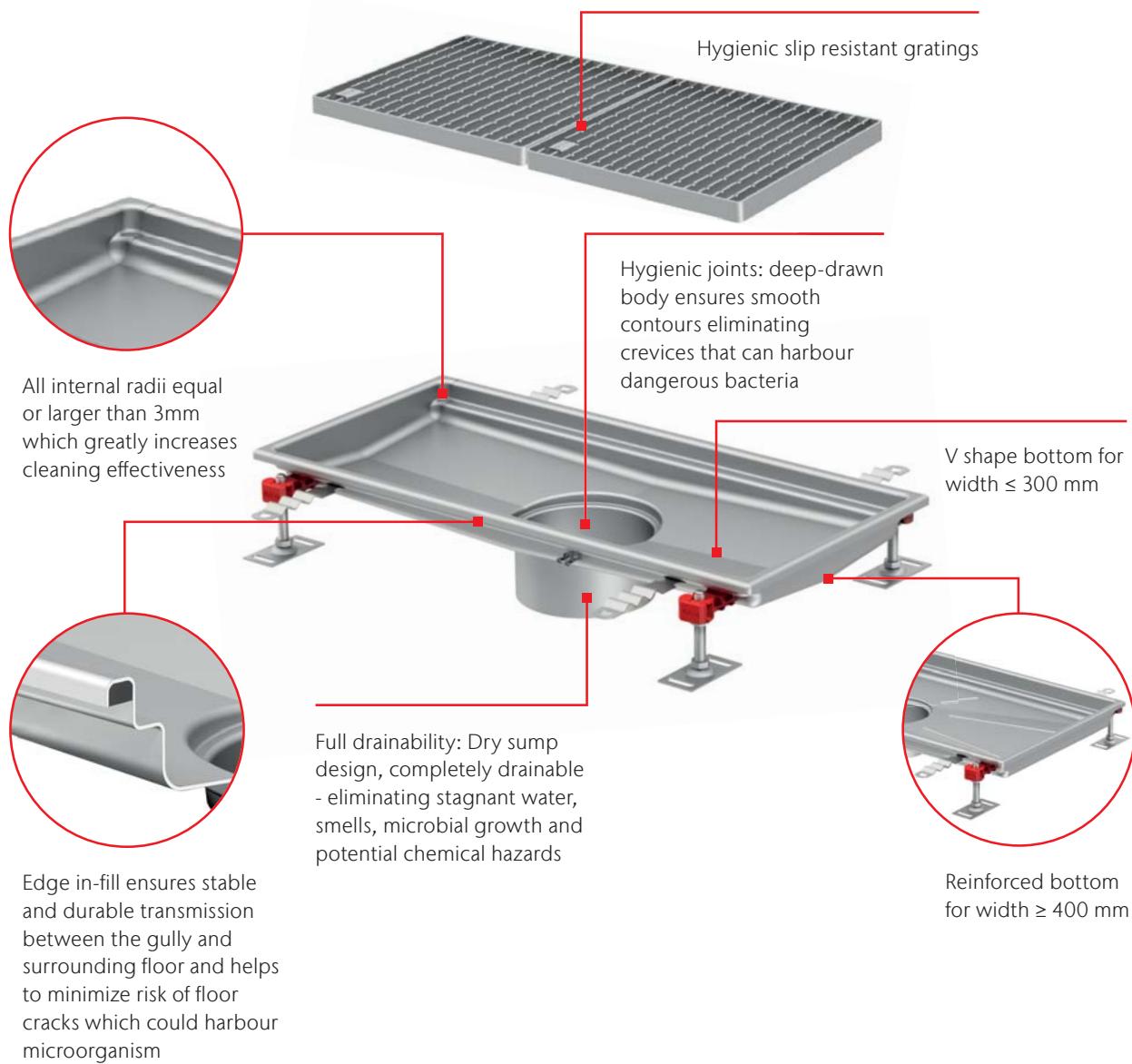
Our aim is to constantly improve every aspect of safety, hygiene and functional performance. We believe that our systems and services are truly unique, delivering unparalleled benefits to everyone involved in

project delivery or subsequent operation.

ACO hygienic drainage fulfils stringent hygienic requirements to prevent harmful bacterial contamination. We apply the relevant hygienic design principles reserved for food contact surfaces EN 1672, EN ISO 14159, EHEDG document to the channel design.

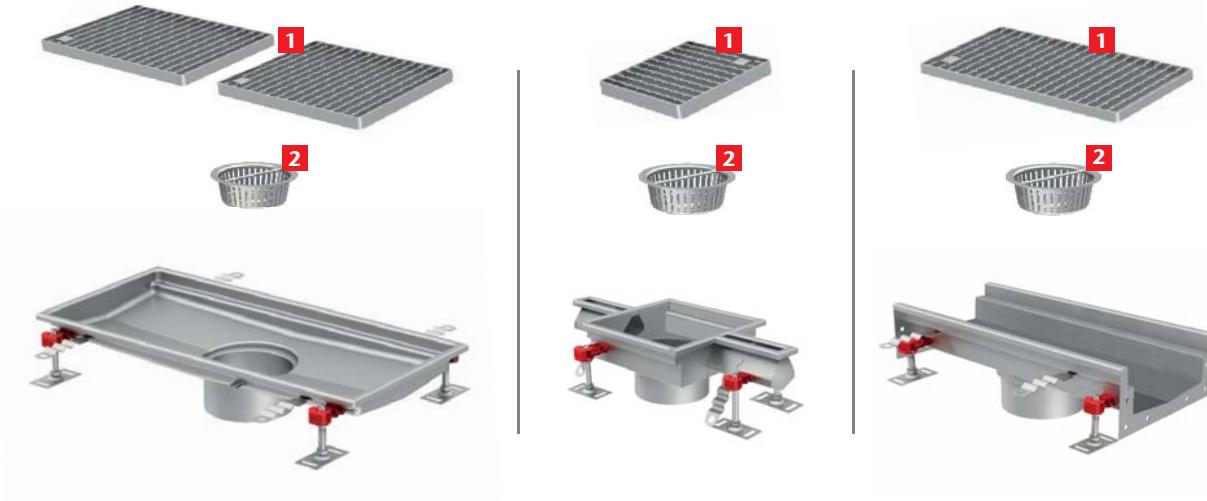
ACO channel hygienic features:

- Fully drainable
- Internal radii equal or larger than 3 mm
- Hygienic joints
- Edge infill
- Stainless steel grade min. AISI 304
- Fully pickled and passivated



System overview

ACO channel



ACO box channel

ACO slot channel

ACO modular box channel

- 1** Gratings
- 2** Silt basket
- 3** Friction ring
- 4** Foul air trap
- 5** Foul air trap support
- 6** ACO gully



ACO gully
with accessories

3

Introduction to ACO box channel

ACO box channel portfolio

The ACO box channel range includes channels for all common applications and all common floor types (concrete, tiles, resin or vinyl).

The ACO box channel portfolio is designed with respect to hygienic design requirements. Selecting a channel from the range is easy. The unique variability of the whole portfolio makes it easy to choose a channel

that suits a customer's specific needs. Channel length, depth and outlet position are just a few of the parameters which can be varied and, regardless of the variations specified, there is no impact on delivery lead times.

ACO box channel ordering

The dimensions of the ACO box channel can be easily specified in respect of project requirements.

To specify the channel please use the Customization template (see page 140) which will help you to identify the information you need, or contact our Sales/Technical department.

ACO box channels with fixed dimensions are also available. These dimensions are a selection of most frequently sold ACO box channels. Please see page 115 where you can find the overview.

ACO box channel customization

3

In addition all ACO box channels can be designed with:

- Special outlet position
- Special depth
- Special slope
- Special channel width
- L-shape and T-shape lay out
- Special side inlets

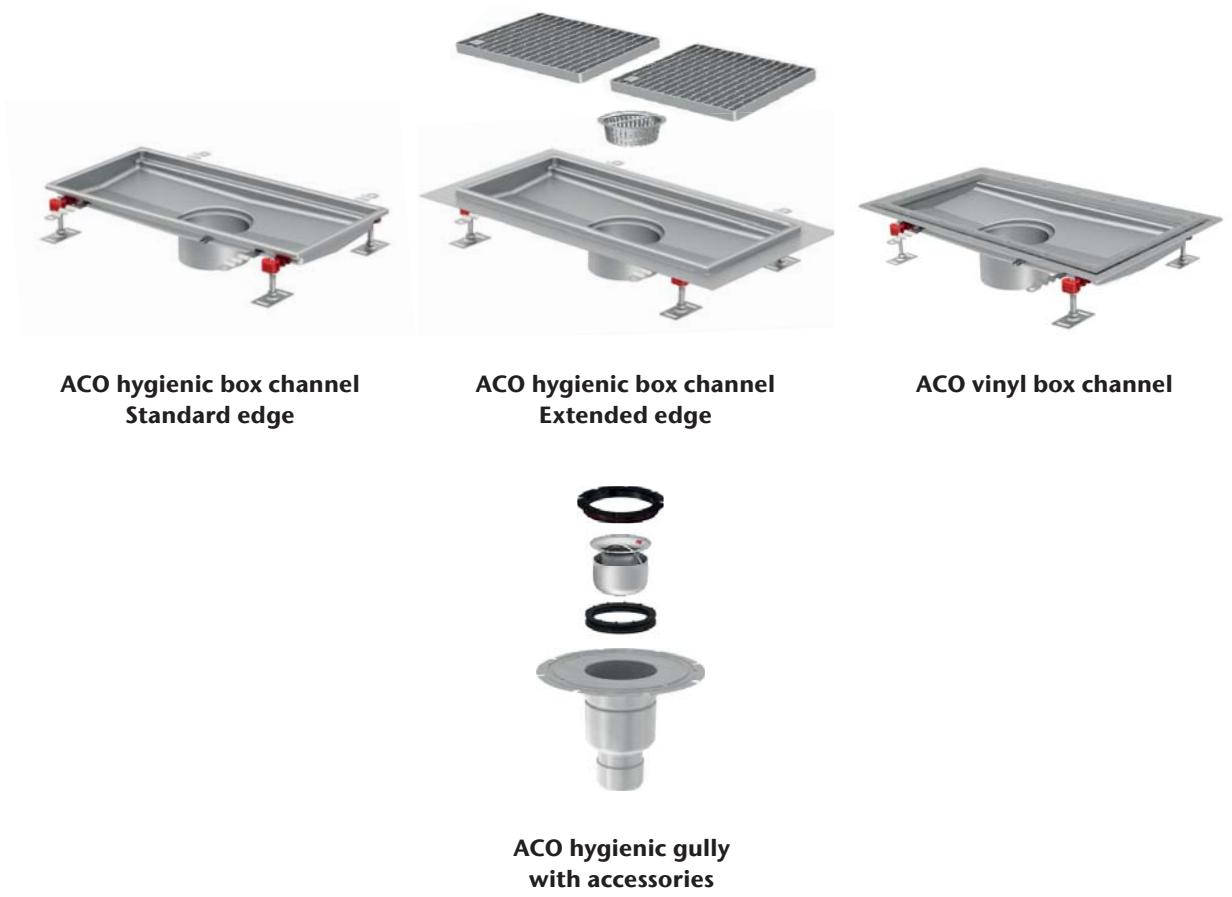
To ask for customised ACO box channel, please contact our Sales/technical department. Please take into consideration that ACO channel customization could decrease the number of hygienic design features.

ACO box channel system overview

ACO box channel, fixed height solution



ACO box channel, telescopic solution



ACO hygienic box channel standard articles

Product information

The dimensions of the ACO hygienic box channel for concrete, tiles and resin floor can be easily specified in

respect of project requirements or easily chosen from predefined fixed dimensions.

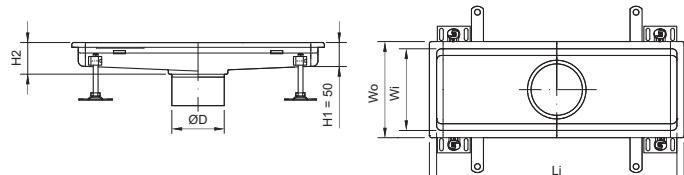
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Material thickness 1.5 mm
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Rubber edge infill
- Fully pickled and passivated
- Minimal longitudinal slope 1%
- Min. sectional slope 5°
- Material thickness 1.5 mm
- Hygienic gratings with slip resistance available
- Protective cover available.
See page 264 for more details
- Tested and certified according to EN 1253
- V-shape bottom for width < 300 mm
- Reinforced bottom for width > 400 mm
- Outlet without deformation
- Easy and secure telescopic connection with gully
- Adjustable EasyFix levelling feet 60-110 mm
- Anchors for fixing in concrete

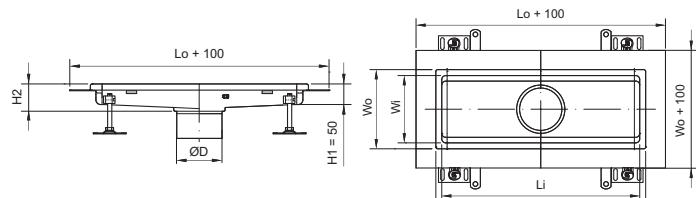
Order information

3

Standard edge

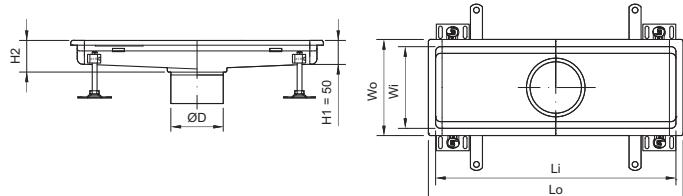
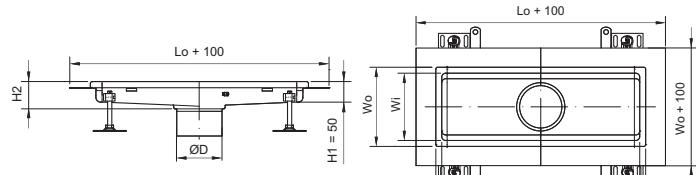


Extended edge



Channel dimensions						Gully	Material	Standard edge	Extended edge
Wo	Wi	Lo	Li	H2	øD			Item number	Item number
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]				
200	170	530	500			ACO hygienic gully 142	1.4301	416584	416680
		530	500				1.4404	416602	416698
		830	800				1.4301	416585	416681
		830	800				1.4404	416603	416699
		1030	1000				1.4301	416586	416682
		1030	1000	60	125		1.4404	416604	416700
		1230	1200				1.4301	416587	416683
		1230	1200				1.4404	416605	416701
		1530	1500				1.4301	416588	416684
		1530	1500				1.4404	416606	416702
200	170	2030	2000			ACO hygienic gully 157	1.4301	416589	416685
		2030	2000				1.4404	416607	416703
		530	500				1.4301	416590	416686
		530	500				1.4404	416608	416704
		830	800				1.4301	416591	416687
		830	800				1.4404	416609	416705
		1030	1000				1.4301	416592	416688
		1030	1000	60	142		1.4404	416610	416706
		1230	1200				1.4301	416593	416689
		1230	1200				1.4404	416611	416707
300	270	1530	1500			ACO hygienic gully 157	1.4301	416594	416690
		1530	1500				1.4404	416612	416708
		2030	2000				1.4301	416595	416691
		2030	2000				1.4404	416613	416709
		330	300	55			1.4301	416614	416710
		330	300				1.4404	416628	416724
		630	600	60			1.4301	416615	416711
		630	600				1.4404	416629	416725
		1030	1000	60			1.4301	416616	416712
		1030	1000				1.4404	416630	416726
300	270	1530	1500	60	142	ACO hygienic gully 157	1.4301	416617	416713
		1530	1500				1.4404	416631	416727
		2030	2000	60			1.4301	416618	416714
		2030	2000				1.4404	416632	416728
		3030	3000	70			1.4301	416619	416715
		3030	3000				1.4404	416633	416729
		4030	4000	80			1.4301	416620	416716
		4030	4000				1.4404	416634	416730

3

Standard edge**Extended edge**

	Channel dimensions						Gully	Material	Standard edge		Extended edge			
	Wo [mm]	Wi [mm]	Lo [mm]	Li [mm]	H2 [mm]	ØD [mm]			Item number	Item number	Item number	Item number		
3	300	270	330	300	55			1.4301	416621	416717				
			330	300				1.4404	416635	416731				
			630	600	60			1.4301	416622	416718				
			630	600				1.4404	416636	416732				
			1030	1000	60			1.4301	416623	416719				
			1030	1000				1.4404	416637	416733				
	400	370	1530	1500	60	200	ACO hygienic gully 218	1.4301	416624	416720				
			1530	1500				1.4404	416638	416734				
			2030	2000	60			1.4301	416625	416721				
			2030	2000				1.4404	416639	416735				
			3030	3000	70			1.4301	416626	416722				
			3030	3000				1.4404	416640	416736				
			4030	4000	80			1.4301	416627	416723				
			4030	4000				1.4404	416641	416737				
			430	400				1.4301	416642	416738				
			430	400				1.4404	416648	416744				
	400	370	630	600	60	142	ACO hygienic gully 157	1.4301	416643	416739				
			630	600				1.4404	416649	416745				
			830	800	80			1.4301	416644	416740				
			830	800				1.4404	416650	416746				

ACO hygienic gully 218 → Page 58
ACO hygienic gully 142 → Page 22

Accessories for ACO hygienic box channel → Page 139
Gratings for ACO hygienic box channel → Pages 126-136

Channel dimensions						Gully	Material	Standard edge	Extended edge
Wo	Wi	Lo	Li	H2	øD		Item number	Item number	
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]				
400	370	430	400	60	200	ACO hygienic gully 218	1.4301	416645	416741
		430	400				1.4404	416651	416747
		630	600				1.4301	416646	416742
		630	600				1.4404	416652	416748
		830	800				1.4301	416647	416743
		830	800				1.4404	416653	416749
500	470	530	500	65	142	ACO hygienic gully 157	1.4301	416654	416750
		530	500				1.4404	416660	416756
		830	800				1.4301	416655	416751
		830	800				1.4404	416661	416757
		1030	1000				1.4301	416656	416752
		1030	1000				1.4404	416662	416758
500	470	530	500	65	200	ACO hygienic gully 218	1.4301	416657	416753
		530	500				1.4404	416663	416759
		830	800				1.4301	416658	416754
		830	800				1.4404	416664	416760
		1030	1000				1.4301	416659	416755
		1030	1000				1.4404	416665	416761
600	570	630	600	70	200	ACO hygienic gully 218	1.4301	416666	416762
		630	600				1.4404	416669	416765
		930	900				1.4301	416667	416763
		930	900				1.4404	416670	416766
		1230	1200				1.4301	416668	416764
		1230	1200				1.4404	416671	416767
800	770	830	800	80	200	ACO hygienic gully 218	1.4301	416672	416768
		830	800				1.4404	416673	416769

ACO hygienic box channel semi-standard

Product information

The dimensions of the ACO hygienic box channel for concrete, tiles and

resin floor can be easily specified
in respect of project requirements.

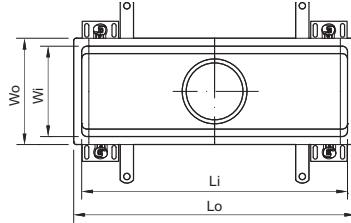
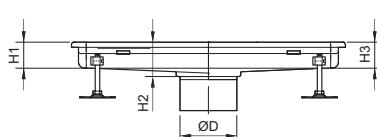
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Rubber edge infill
- Fully pickled and passivated
- Sectional slope of the channel bottom 5°
- Longitudinal slope of the channel bottom 1-5 %
- Material thickness 1.5 mm
- Hygienic gratings with slip resistance available
- Protective cover available.
See page 264 for more details
- Tested and certified according to EN 1253
- V-shape bottom for width < 300 mm
- Reinforced bottom for width > 400 mm
- Length - up to customer request
- Height - variable 50-200
- Outlet position variable in longitudinal axis
- Standardized widths
- Easy and secure telescopic connection with gully
- Adjustable EasyFix levelling feet 60-110 mm
- Anchors for fixing in concrete

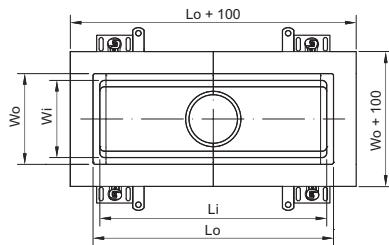
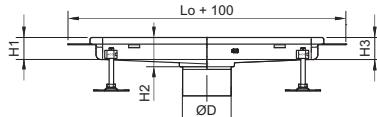
3

Order information

Standard edge



Extended edge



External (overall) width	Internal (grating) width	Length of channel	Height at outlet of channel	Height at end of channel
Wo [mm]	Wi [mm]	Lo	H2	H1 and H3
200	170			
300	270			
400	370			
500	470	Variable*	50-200	50, 80, 110, 140
600	570			
800	770			

In case of one piece channel requirement, channels have to be welded on site. Please contact our Sales/Technical department.

* Long channels over 6m are standard divided in 6m sections with transport joins.

ACO vinyl box channel standard articles

Product information

The dimensions of the ACO vinyl box channel can be specified in respect of project requirements or easily

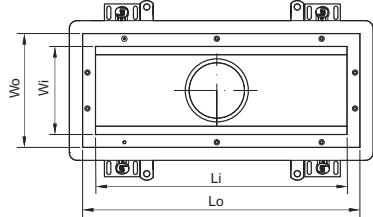
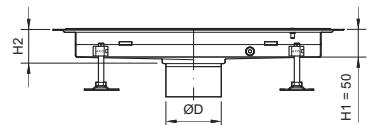
chosen from predefined fixed dimensions.

Product benefits

- Fully compliant to EN 1253
- Material thickness 1.5 mm
- Easy and secure telescopic connection with gully
- Adjustable EasyFix levelling feet 60-110 mm
- Anchors for fixing in concrete
- Protective cover available.
See page 264 for more details

Order information

Vinyl edge



3

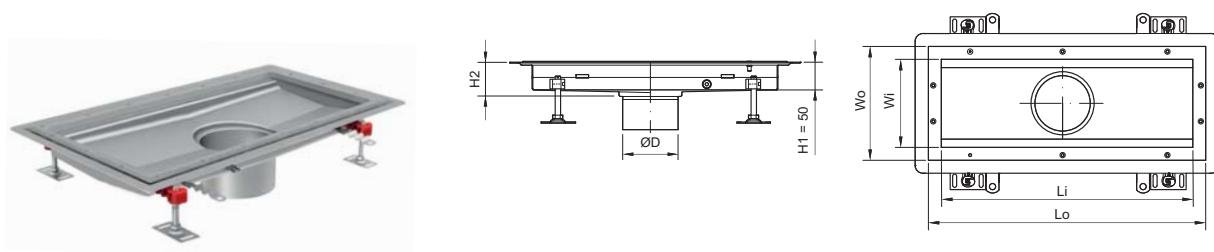
Channel dimensions						Gully	Material	Vinyl edge
Wo	Wi	Lo	Li	H2	øD			Item number
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
220	170	550	500	60	125	ACO hygienic gully 142	1.4301	413358
		850	800				1.4301	413359
		1050	1000				1.4301	413360
		1250	1200				1.4301	413361
		1550	1500				1.4301	413362
		2050	2000				1.4301	413363
220	170	550	500	60	142	ACO hygienic gully 157	1.4301	413364
		850	800				1.4301	413365
		1050	1000				1.4301	413366
		1250	1200				1.4301	413367
		1550	1500				1.4301	413368
		2050	2000				1.4301	413369

ACO hygienic gully 142 → Page 22

Accessories for ACO hygienic box channel → Page 139
Gratings for ACO hygienic box channel → Pages 126-136

Channel dimensions						Gully	Material	Vinyl edge
Wo	Wi	Lo	Li	H2	øD			Item number
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
320	270	350	300				1.4301	413388
		650	600				1.4301	413389
		1050	1000	60		ACO	1.4301	413390
		1550	1500		142	hygienic gully	1.4301	413391
		2050	2000			157	1.4301	413392
		3050	3000	70			1.4301	413393
320	270	4050	4000	80			1.4301	413394
		350	300				1.4301	413395
		650	600				1.4301	413396
		1050	1000	60		ACO	1.4301	413397
		1550	1500		200	hygienic gully	1.4301	413398
		2050	2000			218	1.4301	413399
420	370	3050	3000	70			1.4301	413400
		4050	4000	80			1.4301	413401
		450	400			ACO	1.4301	413416
		650	600	60	142	hygienic gully	1.4301	413417
		850	800			157	1.4301	413418
		450	400			ACO	1.4301	413419
520	470	650	600	65	142	hygienic gully	1.4301	413420
		850	800			218	1.4301	413421
		530	500			ACO	1.4301	413428
		830	800	65	142	hygienic gully	1.4301	413429
		1030	1000			157	1.4301	413430
		550	500			ACO	1.4301	413431
520	470	850	800	65	200	hygienic gully	1.4301	413432
		1050	1000			218	1.4301	413433
		650	600			ACO	1.4301	413440
		950	900	70	200	hygienic gully	1.4301	413441
		1250	1200			218	1.4301	413442
		820	770	850	80	200	ACO	
						hygienic gully	1.4301	413446
						218		

Vinyl edge



Channel dimensions						Gully	Material	Vinyl edge
Wo [mm]	Wi [mm]	Lo [mm]	Li [mm]	H2 [mm]	ØD [mm]			Item number
420	370	450	400			ACO	1.4301	413416
		650	600	60	142	hygienic gully 157	1.4301	413417
		850	800				1.4301	413418
520	470	450	400			ACO	1.4301	413419
		650	600	65	142	hygienic gully 218	1.4301	413420
		850	800				1.4301	413421
520	470	530	500			ACO	1.4301	413428
		830	800	65	142	hygienic gully 157	1.4301	413429
		1030	1000				1.4301	413430
520	470	550	500			ACO	1.4301	413431
		850	800	65	200	hygienic gully 218	1.4301	413432
		1050	1000				1.4301	413433
620	570	650	600				1.4301	413440
		950	900			ACO	1.4301	413441
		950	900	70	200	hygienic gully 218	1.4404	413444
820	770	1250	1200				1.4301	413442
						ACO		
						hygienic gully 218	1.4301	413446

3

ACO hygienic gully 157 → Page 36
ACO hygienic gully 218 → Page 58

Accessories for ACO hygienic box channel → Page 139
Gratings for ACO hygienic box channel → Pages 126-136

ACO vinyl box channel semi-standard

Product information

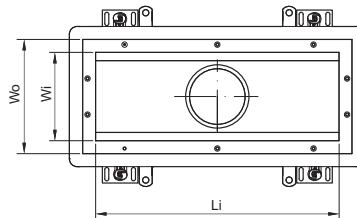
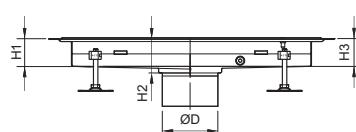
The dimensions of the ACO vinyl box channel can be easily specified in respect of project requirements.

Product benefits

- Fully compliant to EN 1253
- Available in 1.4301 (304) or 1.4404
- (316L) grades of stainless steel, pickled and passivated
- Material thickness 1.5 mm
- Height variable 50-200 mm
- Length – up to customer request
- Standardized widths
- Outlet position central or variable in longitudinal axis
- Longitudinal slopes of the channel bottom 1-5 %
- Adjustable EasyFix levelling feet 60-110 mm
- Anchors for fixing in concrete
- Protective cover available.
See page 264 for more details

Order information

Vinyl edge



3

External (overall) width	Internal (grating) width	Length of channel	Height at outlet of channel	Height at end of channel
Wo [mm]	Wi [mm]	Li	H2	H1 and H3
230	170			
330	270			
430	370	Variable*		
530	470		50-200	50, 80, 110, 140
630	570			
830	870			

In case of one piece channel requirement, channels have to be welded on site. Please contact our Sales/Technical department.

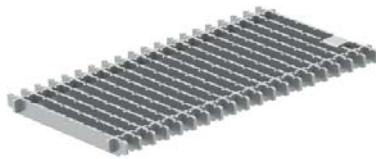
* Long channels over 6m are standard divided in 6m sections with transport joins.

ACO hygienic gully 142 → Page 22
ACO hygienic gully 157 → Page 36
ACO hygienic gully 218 → Page 58

Accessories for ACO hygienic box channel → Page 139
Gratings for ACO hygienic box channel → Pages 126-136

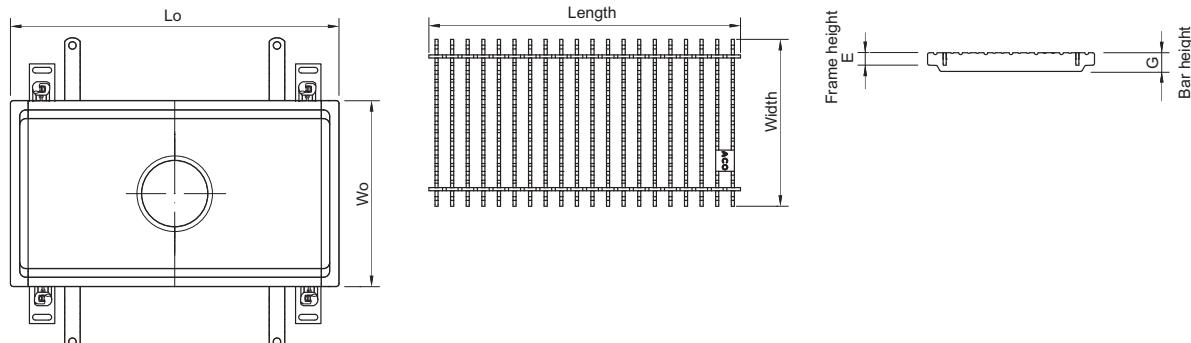
ACO frameless ladder grating

Product benefits	
<ul style="list-style-type: none"> ■ Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44 ■ Fully pickled and passivated ■ Electropolished surface ■ Registered logo design allows for easy manipulation during cleaning ■ Range of gratings suitable for load class M 125 (EN 1253) 	<ul style="list-style-type: none"> ■ High flow capacity ■ Rounded corners ■ Slip resistant <ul style="list-style-type: none"> □ Low potential for slip according to BS 7976-2 □ R11 according to DIN 51130



Order information

Load class M 125



3

Channel dimension	Grating dimension					Material	Item number	Quantity to fill channel			
	W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]						
200	530	20	30	168	499	1.4301	446248	1			
						1.4404	446249				
	830	20	30	168	398	1.4301	446252	2			
						1.4404	446253				
	1030	20	30	168	499	1.4301	446248	2			
						1.4404	446249				
200	1230	20	30	168	398	1.4301	446252	3			
						1.4404	446253				
	1530	20	30	168	499	1.4301	446248	3			
						1.4404	446249				
2030	20	30	168	499	1.4301	446248	4				
					1.4404	446249					

Channel dimension			Grating dimension			Material	Item number	Quantity to fill channel
W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]			
330	20	30	30	268	298	1.4301	446260	1
						1.4404	446261	
630	20	30	30	268	298	1.4301	446260	2
						1.4404	446261	
1030	20	30	30	268	499	1.4301	446256	2
						1.4404	446257	
300	1530	20	30	268	499	1.4301	446256	3
						1.4404	446257	
2030	20	30	30	268	499	1.4301	446256	4
						1.4404	446257	
3030	20	30	30	268	499	1.4301	446256	6
						1.4404	446257	
4030	20	30	30	268	499	1.4301	446256	8
						1.4404	446257	

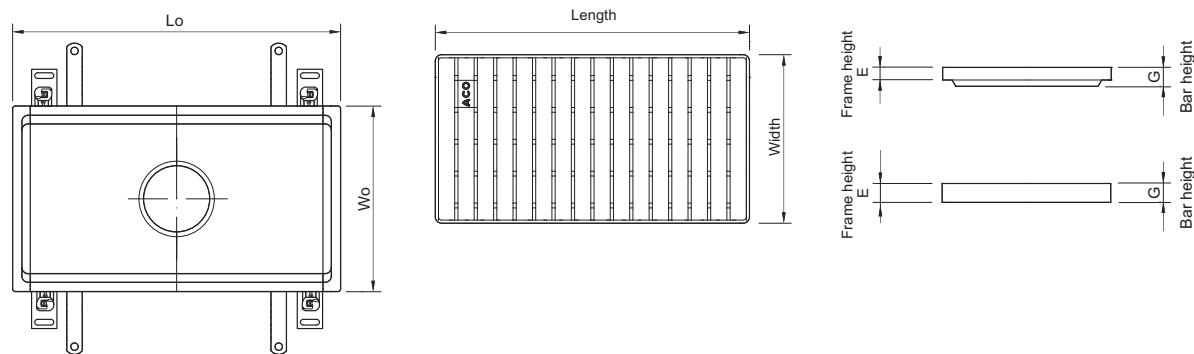
ACO hygienic ladder grating

Product benefits	
<ul style="list-style-type: none"> ■ Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44 ■ Fully pickled and passivated ■ Electropolished surface ■ Registered logo design allows for easy manipulation during cleaning ■ Range of gratings suitable for load classes R 50, M 125 and N 250 (EN 1253) 	<ul style="list-style-type: none"> ■ Tested and certified according to NSF International ■ High flow capacity ■ Rounded corners ■ Slip resistant <input type="checkbox"/> Low potential for slip according to BS 7976-2 <input type="checkbox"/> R11 according to DIN 51130



Order information

Load class R 50



3

Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
200	530	20	20	168	499	1.4301	416802
						1.4404	416803
	830	20	20	168	398	1.4301	416808
						1.4404	416809
	1030	20	20	168	999	1.4301	445948
						1.4404	445949
	1030	20	20	168	499	1.4301	416802
						1.4404	416803
	1230	20	20	168	398	1.4301	416808
						1.4404	416809
	1530	20	20	168	499	1.4301	416802
						1.4404	416803

Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
200	2030	20	20	168	999	1.4301	445948
						1.4404	445949
	2030	20	20	168	499	1.4301	416802
						1.4404	416803
	330	20	20	268	298	1.4301	416812
						1.4404	416813
	630	20	20	268	298	1.4301	416812
						1.4404	416813
300	1030	20	20	268	999	1.4301	445952
						1.4404	445953
	1030	20	20	268	499	1.4301	416814
						1.4404	416815
	1530	20	20	268	499	1.4301	416814
						1.4404	416815
	2030	20	20	268	999	1.4301	445952
						1.4404	445953
400	2030	20	20	268	499	1.4301	416814
						1.4404	416815
	3030	20	20	268	999	1.4301	445952
						1.4404	445953
	3030	20	20	268	499	1.4301	416814
						1.4404	416815
	4030	20	20	268	999	1.4301	445952
						1.4404	445953
500	4030	20	20	268	499	1.4301	416814
						1.4404	416815
	430	30	30	368	398	1.4301	416820
						1.4404	416821
	630	30	30	368	598	1.4301	416822
						1.4404	416823
	830	30	30	368	398	1.4301	416820
						1.4404	416821
500	530	30	30	468	499	1.4301	416828
						1.4404	416829
	830	30	30	468	398	1.4301	416830
						1.4404	416831
500	1030	30	30	468	499	1.4301	416828
						1.4404	416829

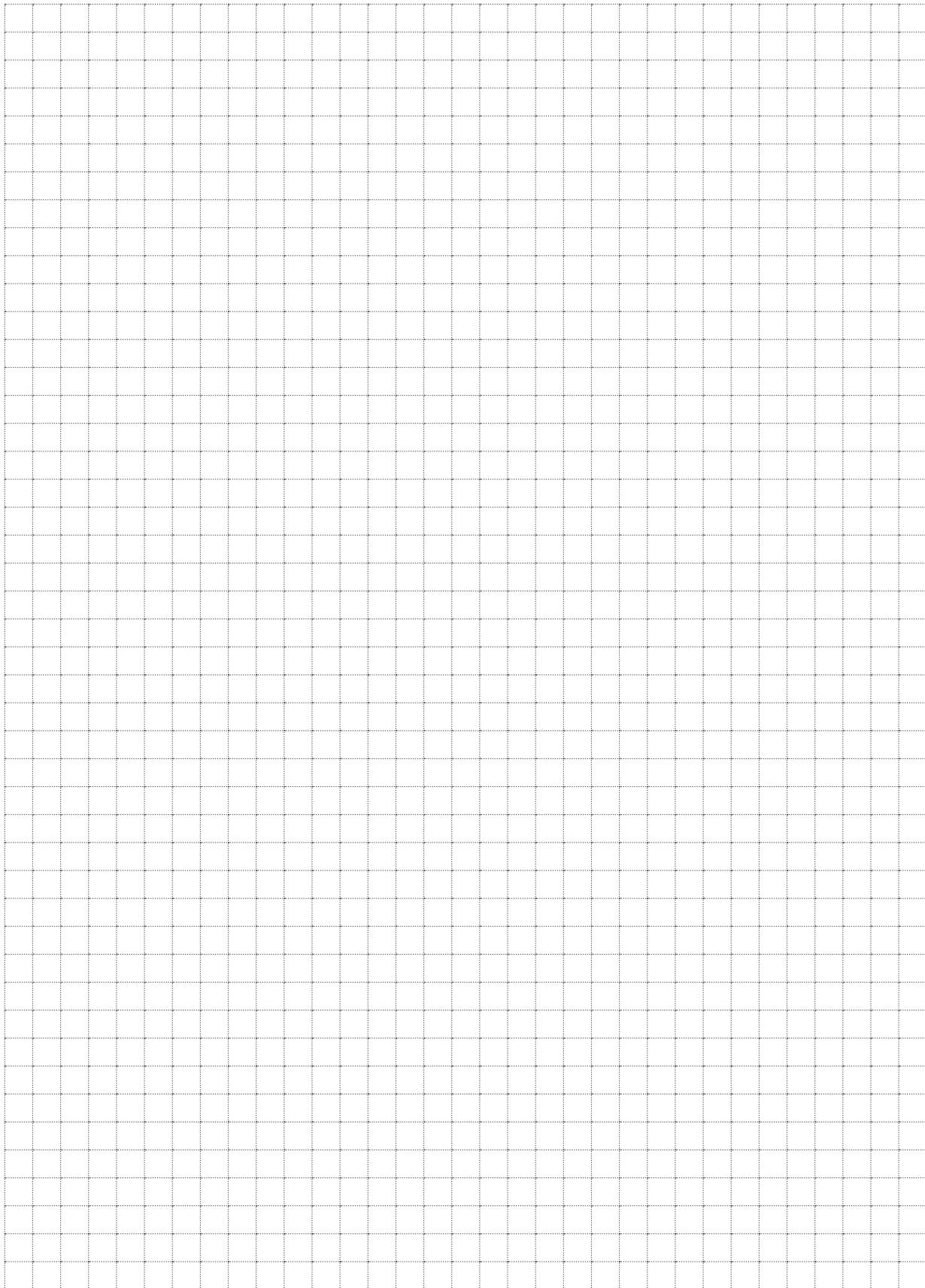
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Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
Load class R 50							
	630	30	30	568	298	1.4301 1.4404	416838 416839
	600	930	30	568	298	1.4301 1.4404	416838 416839
		1230	30	568	298	1.4301 1.4404	416838 416839
	800	830	30	768	398	1.4301 1.4404	416842 416843
Load class M125							
3		530	20	30	168	499	1.4301 1.4404
		830	20	30	168	398	416804 416805
		1030	20	20	168	999	1.4301 1.4404
	200	1030	20	30	168	499	445950 445951
		1230	20	30	168	398	416804 416805
		1530	20	30	168	499	416810 416811
		2030	20	20	168	999	416804 416805
		2030	20	30	168	499	445950 445951
		330	20	30	268	298	416804 416805
		630	20	30	268	298	416816 416817
300		1030	20	30	268	499	416816 416817
		1030	20	20	268	999	416818 416819
		1530	20	30	268	499	445954 445955
		2030	20	20	268	999	416818 416819
						445954 445955	3 2

Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel	
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]			
300	2030	20	30	268	499	1.4301	416818	4
						1.4404	416819	
	3030	20	30	268	999	1.4301	445954	3
						1.4404	445955	
	3030	20	30	268	499	1.4301	416818	6
						1.4404	416819	
	4030	20	20	268	999	1.4301	445954	4
						1.4404	445955	
	4030	20	30	268	499	1.4301	416818	8
						1.4404	416819	
400	430	30	30	368	398	1.4301	416824	1
						1.4404	416825	
	630	30	30	368	598	1.4301	416826	1
						1.4404	416827	
500	830	30	30	368	398	1.4301	416824	2
						1.4404	416825	
	530	30	30	468	499	1.4301	416832	1
						1.4404	416833	
500	830	30	30	468	398	1.4301	416834	2
						1.4404	416835	
	1030	30	30	468	499	1.4301	416832	2
						1.4404	416833	
Load class N 250								
200	530	20	30	168	499	1.4301	416844	1
						1.4404	416845	
	830	20	30	168	398	1.4301	416846	2
						1.4404	416847	
	1030	20	30	168	499	1.4301	416844	2
						1.4404	416845	
	1230	20	30	168	398	1.4301	416846	3
						1.4404	416847	
200	1530	20	30	168	499	1.4301	416844	3
						1.4404	416845	
200	2030	20	30	168	499	1.4301	416844	4
						1.4404	416845	

Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
Load class N 250							
	330	20	30	268	298	1.4301 1.4404	416850 416851
	630	20	30	268	298	1.4301 1.4404	416850 416851
	1030	20	30	268	499	1.4301 1.4404	416848 416849
300	1530	20	30	268	499	1.4301 1.4404	416848 416849
	2030	20	30	268	499	1.4301 1.4404	416848 416849
	3030	20	30	268	499	1.4301 1.4404	416848 416849
	4030	20	30	268	499	1.4301 1.4404	416848 416849

Notes:



3

ACO mesh grating

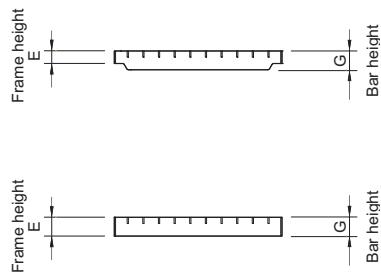
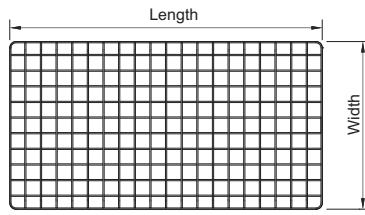
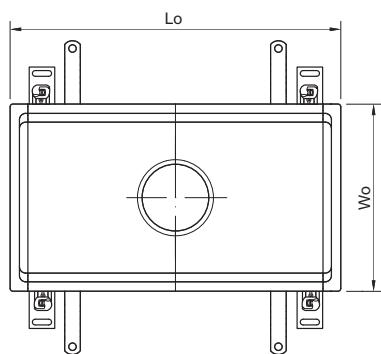
Product benefits

- ACO mesh grating with slip resistant finish
- Tested and certified according to EN 1253
- Range of gratings suitable to load class L 15 (EN 1253)
- Surface - electropolished
- High flow capacity of grates
- Rounded corners
- Slip resistant
- Slip resistant low potential for slip according to BS 7976-2
- R11 according to DIN 51130



Order information

Load class L 15



3	Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
	W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]			
200	530	530	20	30	168	499	1.4301	416860
							1.4404	416861
		830	20	30	168	398	1.4301	416862
							1.4404	416863
		1030	20	30	168	999	1.4301	413153
							1.4404	445957
		1030	20	30	168	499	1.4301	416860
							1.4404	416861
		1230	20	30	168	398	1.4301	416862
							1.4404	416863
		1530	20	30	168	499	1.4301	416860
							1.4404	416861
		2030	20	30	168	999	1.4301	413153
							1.4404	445957
		2030	20	30	168	499	1.4301	416860
							1.4404	416861

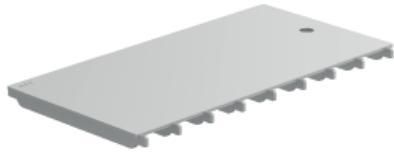
Channel dimension		Grating dimension			Material	Item number	Quantity to fill channel
W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
300	330	20	30	268	298	1.4301	416864
						1.4404	416865
	630	20	30	268	298	1.4301	416864
						1.4404	416865
	1030	20	30	268	999	1.4301	413154
						1.4404	445959
	1030	20	30	268	499	1.4301	416866
						1.4404	416867
	1530	20	30	268	499	1.4301	416866
						1.4404	416867
400	2030	20	30	268	999	1.4301	413154
						1.4404	445959
	2030	20	30	268	499	1.4301	416866
						1.4404	416867
	3030	20	30	268	999	1.4301	413154
						1.4404	445959
	3030	20	30	268	499	1.4301	416866
						1.4404	416867
	4030	20	30	268	999	1.4301	413154
						1.4404	445959
500	4030	20	30	268	499	1.4301	416866
						1.4404	416867
	430	30	30	368	398	1.4301	416868
						1.4404	416869
	630	30	30	368	598	1.4301	416870
						1.4404	416871
	830	30	30	368	398	1.4301	416868
						1.4404	416869
	530	30	30	468	499	1.4301	416872
						1.4404	416873
600	830	30	30	468	398	1.4301	416874
						1.4404	416875
	1030	30	30	468	499	1.4301	416872
						1.4404	416873
	630	30	30	568	298	1.4301	416876
						1.4404	416877
	930	30	30	568	298	1.4301	416876
						1.4404	416877
	1230	30	30	568	298	1.4301	416876
						1.4404	416877
800	830	30	30	768	398	1.4301	416878
						1.4404	416879

3

ACO hygienic slot cover

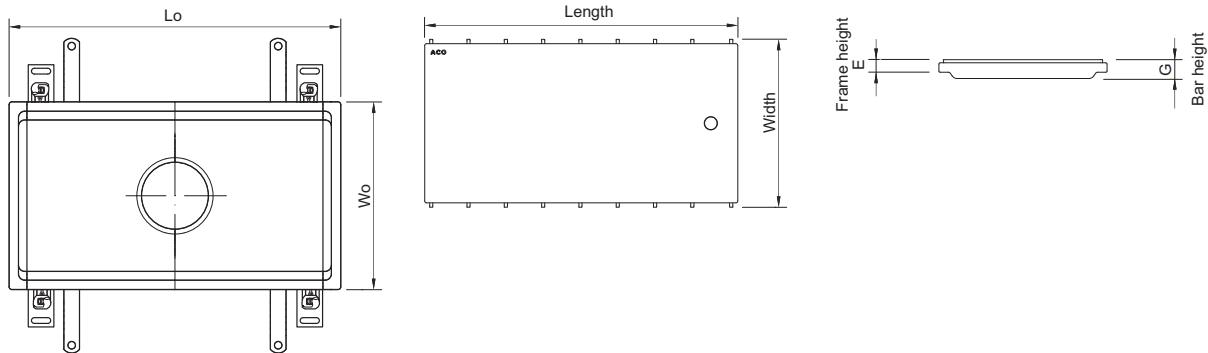
Product benefits

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Fully pickled and passivated
- Sandblasted surface
- Range of gratings suitable for load classes R 50, M 125 and N 250 (EN 1253)
- Rounded corners
- Slip resistant
 - Low potential for slip according to BS 7976-2
 - R11 according to DIN 51130



Order information

Load class R 50



3

Channel dimension	Grating dimension						Material	Item number	Quantity to fill channel
	W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]			
200	530	20	30	168	499		1.4301	445756	1
							1.4404	445757	
	830	20	30	168	398		1.4301	445762	2
							1.4404	445763	
	1030	20	30	168	499		1.4301	445756	2
							1.4404	445757	
	1230	20	30	168	398		1.4301	445762	3
							1.4404	445763	
	1530	20	30	168	499		1.4301	445756	3
							1.4404	445757	
	2030	20	30	168	499		1.4301	445756	4
							1.4404	445757	

Channel dimension	Grating dimension					Material	Item number	Quantity to fill channel
	W _o [mm]	L _o [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]			
300	330	20	30	268	298	1.4301	445774	1
						1.4404	445775	
	630	20	30	268	298	1.4301	445774	2
						1.4404	445775	
	1030	20	30	268	499	1.4301	445768	2
						1.4404	445769	
300	1530	20	30	268	499	1.4301	445768	3
						1.4404	445769	
	2030	20	30	268	499	1.4301	445768	4
						1.4404	445769	
	3030	20	30	268	499	1.4301	445768	6
						1.4404	445769	

Load class M 125

200	530	20	30	168	499	1.4301	445758	1
						1.4404	445759	
	830	20	30	168	398	1.4301	445764	2
						1.4404	445765	
	1030	20	30	168	499	1.4301	445758	2
						1.4404	445759	
300	1230	20	30	168	398	1.4301	445764	3
						1.4404	445765	
	1530	20	30	168	499	1.4301	445758	3
						1.4404	445759	
	2030	20	30	168	499	1.4301	445758	4
						1.4404	445759	
300	330	20	30	268	298	1.4301	445776	1
						1.4404	445777	
	630	20	30	268	298	1.4301	445776	2
						1.4404	445777	
	1030	20	30	268	499	1.4301	445770	2
						1.4404	445771	
300	1530	20	30	268	499	1.4301	445770	3
						1.4404	445771	
	2030	20	30	268	499	1.4301	445770	4
						1.4404	445771	
	3030	20	30	268	499	1.4301	445770	6
						1.4404	445771	

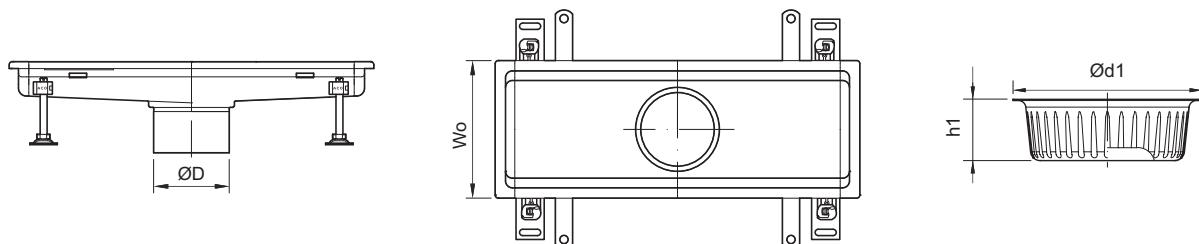
3

Channel dimension	Grating dimension					Material	Item number	Quantity to fill channel
	Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]		
Load class N 250								
200	530	20	30	168	499	1.4301 1.4404	445760 445761	1
	830	20	30	168	398	1.4301 1.4404	445766 445767	2
	1030	20	30	168	499	1.4301 1.4404	445760 445761	2
	1230	20	30	168	398	1.4301 1.4404	445766 445767	3
	1530	20	30	168	499	1.4301 1.4404	445760 445761	3
	2030	20	30	168	499	1.4301 1.4404	445760 445761	4
300	330	20	30	268	298	1.4301 1.4404	445778 445779	1
	630	20	30	268	298	1.4301 1.4404	445778 445779	2
	1030	20	30	268	499	1.4301 1.4404	445772 445773	2
	1530	20	30	268	499	1.4301 1.4404	445772 445773	3
	2030	20	30	268	499	1.4301 1.4404	445772 445773	4
	3030	20	30	268	499	1.4301 1.4404	445772 445773	6

Accessories for ACO box channels

Order information

Silt baskets for ACO hygienic box channel



Channel dimension	Outlet	Direction of gully outlet	Silt basket dimension	Capacity	Material	Item number
Width Wo [mm]	ØD [mm]		Ød1 [mm]	h1 [mm]	[l]	
200, 300, 400, 500, 600, 800	125	vertical, horizontal	142	45	0.4	1.4301
						1.4404
200	142	vertical	142	45	0.4	1.4301
		horizontal				1.4404
300, 400, 500, 600, 800	welded with ACO hygienic gully 142	vertical, horizontal	142	25	0.3	1.4301
						1.4404
300, 400, 500, 600, 800	142 or welded with ACO hygienic gully 157	vertical	159	50	0.6	1.4301
		horizontal				1.4404
300, 400, 500, 600, 800	200 or welded with ACO hygienic gully 218	vertical	222	50	1.4	1.4301
		horizontal				1.4404

3

ACO customized box channel

Product information

The dimensions of the ACO customized box channel for concrete, tiles and resin floor can be easily specified in respect of project requirements.

Product benefits

- Material thickness 1.5 mm or 2 mm
- Width – up to customer request
- Length – up to customer request
- Depth – up to customer request
- Variable shape of channel – T shape, L shape
- Longitudinal slopes of the channel bottom 1-5 %
- Outlet position central or variable in longitudinal axis or eccentric outlet
- Adjustable EasyFix levelling feet
- Anchors for fixing in concrete
- Protective cover available for recommended channel widths. See page 264 for more details

Instructions

- Please define channel dimensions by filling out required entry fields
 - For technical support, please contact customerservice@aco.cz
 - For Industrial Drainage information, visit www.buildingdrainage.aco
- These option buttons highlight hygienic design requirements
- These option buttons highlight possible conflicts in hygienic design

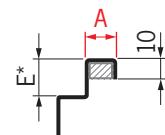
Step 1 - Material

- Stainless steel grade 1.4301 (AISI 304) Stainless steel grade 1.4404 (AISI 316L)

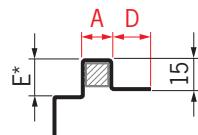
3

Step 2 - Edge profile

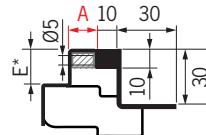
Standard edge



Extended edge



L-profile edge



Edge infill type

- Rubber edge infill
- PUR edge infill
- Steel edge infill
- No edge infill

Edge infill type

- Rubber edge infill
- PUR edge infill
- Steel edge infill
- No edge infill

Edge infill type

- Rubber edge infill
- PUR edge infill
- Steel edge infill
- No edge infill

Edge width (A)

- 15 mm
- Custom: mm

Edge width (A)

- 15 mm
- Custom: mm

Edge width (A)

- 15 mm
- Custom: mm

Flange length (D)

- 50 mm
- Custom: mm

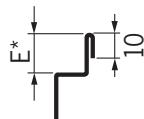
Read more about L-profile edge at:
www.buildingdrainage.aco

* Sitting height for gratings (E) is defined in step 7

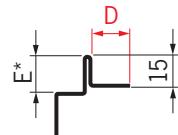
** For hygienic solution, check with technical support

Step 2 - Edge profile

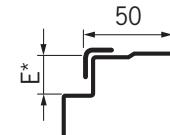
Folded edge



Folded edge with flange



Vinyl edge

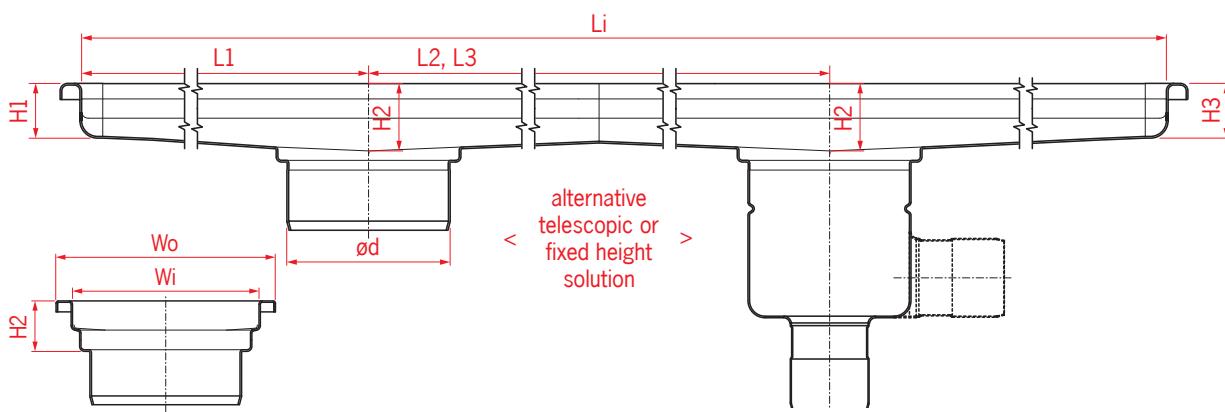


Flange length (D)

50 mm

Custom: mm

Step 3 - Channel dimensions



Width	Channel height at outlet	Channel length	Channel shape
Overall (Wo) / Internal (Wi)	(H2)	(Li)	
<input type="checkbox"/> 150 mm / 118 mm (valid for edge width 15 mm)	<input type="text"/> mm	<input type="text"/> mm	<input type="checkbox"/> L-shape
<input type="checkbox"/> 200 mm / 170 mm (valid for edge width 15 mm)	Slope	Number of outlets and their spacing (L1-L4)***	 $Li = La + Lb$
<input type="checkbox"/> 300 mm / 270 mm (valid for edge width 15 mm)	<input type="checkbox"/> No	<input type="checkbox"/> L1: <input type="text"/> mm	
<input type="checkbox"/> 400 mm / 370 mm (valid for edge width 15 mm)	<input type="checkbox"/> Yes - 1%	<input type="checkbox"/> L2: <input type="text"/> mm	
<input type="checkbox"/> 500 mm / 470 mm (valid for edge width 15 mm)	<input type="checkbox"/> Yes - height defined**	<input type="checkbox"/> L3: <input type="text"/> mm	La: <input type="text"/> mm
<input type="checkbox"/> 600 mm / 570 mm (valid for edge width 15 mm)	H1: <input type="text"/> mm	<input type="checkbox"/> L4: <input type="text"/> mm	Lb: <input type="text"/> mm
<input type="checkbox"/> 800 mm / 770 mm (valid for edge width 15 mm)	H3: <input type="text"/> mm		<input type="checkbox"/> T-shape
<input type="checkbox"/> Custom*: Wo: <input type="text"/> mm Wi: <input type="text"/> mm			 $Li = La + Lb$

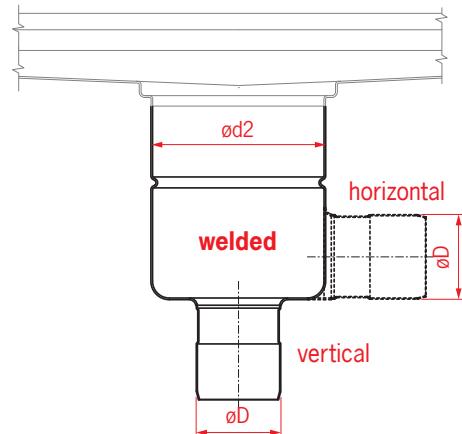
* For channel with standard edge width of 15 mm subtract 30 mm from overall width as value for internal width

** If you require values below 50 mm, please contact technical support

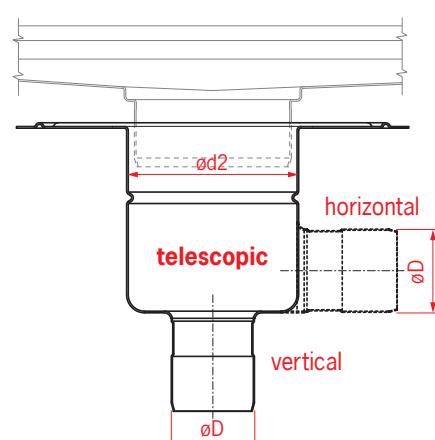
*** For hygienic solution, check with technical support

Step 4 - Gully construction

Welded gully



Telescopic gully



Outlet orientation and dimensions

Vertical outlet

(ød2 / øD)

142 / 75 (1.4 l/s)

142 / 110 (1.6 l/s)

157 / 75 (2.7 l/s)

157 / 110 (3.5 l/s)

218 / 110 (5.0 l/s)

218 / 160 (5.0 l/s)

Horizontal outlet

(ød2 / øD)

142 / 75 (1.4 l/s)

142 / 110 (1.6 l/s)

157 / 75 (2.6 l/s)

157 / 110 (2.8 l/s)

218 / 110 (4.4 l/s)

Location flange
(For telescopic gully only)



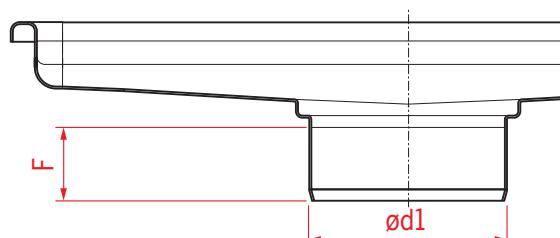
Bonding flange
(For telescopic gully only)



Mechanical clamping flange
(For telescopic gully only)



Without gully (outlet pipe only)



Outlet diameter

(ød1)

75 mm

110 mm

125 mm

142 mm

200 mm

Outlet length

(F)

36 mm

58 mm

150 mm

Custom: mm

Step 5 - Accessories

Foul air trap included



- Yes
 No

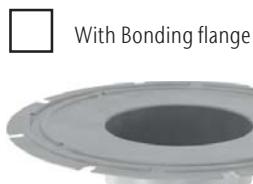
Silt basket included



- Yes
 No

Raising piece included

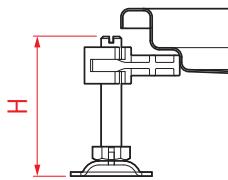
- Yes
 No



ACO EasyFix

levelling feet height (H)

- 80 mm (standard)
 110 mm
 170 mm
 200 mm
 250 mm
 300 mm



Channel with height at outlet above 200 mm are supplied with durable stainless steel levelling feet

ACO Protective cover

covers included

- Yes
 No



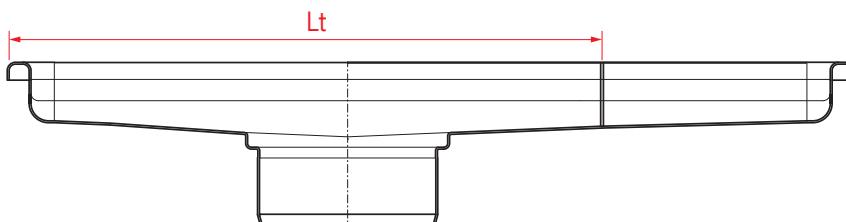
3

Step 6 - Delivery requirements

Maximum transport length

(Lt)

- 6000 mm (standard)
 3000 mm
 2000 mm



Transport connection type

- Welded on site Bolted on site

ACO box channel

ACO customized box channel

Step 7 - Gratings



ACO frameless ladder grating



Slip resistant



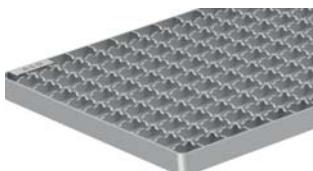
ACO hygienic ladder grating



Slip resistant Plain



ACO mesh grating



Slip resistant Plain

Load class



M 125

(valid up to Wo = 300 mm)



R 50

(valid up to Wo = 800 mm)

Load class



L 15

(valid up to Wo = 1000 mm)



M 125

(valid up to Wo = 500 mm)



R 50 max. Wo = 300

(valid up to Wo = 500 mm)



N 250

(valid up to Wo = 300 mm)



M 125 max. Wo = 300

(valid up to Wo = 300 mm)



P 400

(Custom)



ACO hygienic slot cover



Slip resistant



ACO perforated grating



Plain



ACO heelsafe grating



Plain

3

Load class



R 50

(valid up to Wo = 300 mm)



L 15

(valid up to Wo = 300 mm)



L 15 max. Wo = 300

(valid up to Wo = 300 mm)



M 125

(valid up to Wo = 300 mm)



R 50 max. Wo = 300

(valid up to Wo = 300 mm)



M 250

(valid up to Wo = 300 mm)

ACO multi-slot 5 grating



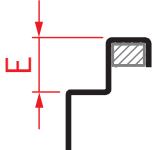
Slip resistant

Without gratings

Height of gratings (E)

20 mm

25 mm



30 mm

40 mm

L 15

(valid up to $W_o = 300$ mm)

R 50 max. $W_o = 300$

(valid up to $W_o = 300$ mm)

Introduction to ACO slot channel

ACO slot channel portfolio

The ACO slot channel range covers channels for all common applications and all common floor types (concrete, tiles, resin or vinyl).

Selecting a channel from the range is easy. The unique variability of the whole portfolio allows choosing the right channel according to all customers' needs.

Channel's length, depth and outlet position are just a few of the parameters which can be varied and, regardless of the variations specified, there is no impact on delivery lead times.

ACO slot channel ordering

The dimensions of the ACO slot channel can be easily specified in respect of project requirements.

To specify the channel please use the Customization template (see page 149) which will help you to identify the information needed or contact our Sales/Technical department.

ACO slot channel customization

In addition all ACO slot channel can be designed with:

- Special outlet position
- Special depth
- Special slope
- Special slot channel width
- L-shape and T-shape layout
- Special side inlets

To request customised ACO slot channel, please contact our Sales/technical department.

3

ACO slot channel system overview

ACO slot channel, fixed height solution



ACO slot channel, telescopic solution



3

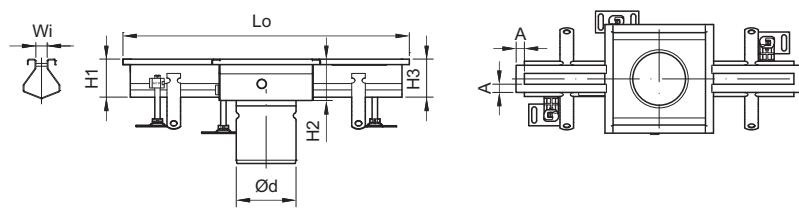
ACO slot channel semi-standard

Product information

The dimensions of the ACO slot channel for concrete, tiles and resin floor can be easily specified in respect of project requirements.

Product benefits	
<ul style="list-style-type: none">■ Tested and certified according to EN 1253■ Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel, pickled and passivated■ 1.5 mm material thickness■ ACO slot channel 8 or 20 mm■ Length – up to customer request	<ul style="list-style-type: none">■ Longitudinal slopes of the channel bottom 1-5 %■ Standardized widths■ Outlet position central or variable in longitudinal axis■ Adjustable EasyFix levelling feet■ Anchors for fixing in concrete■ Protective cover available. See page 264 for more details

Order information



External (overall) width	Dimension of edge	Length of channel	Height at outlet of channel	Height at end of channel
Wi [mm]	A [mm]	Lo	H2	H1 and H3
20	15	Variable*	50-200	50-200
8	folded		50-200	50-200

* The maximum transportable length of channel is 6 000 mm.
Long channels over 6 000 mm are standardly divided in 6 m sections with transport joins.

ACO customized slot channel

Product information

The dimensions of the ACO customized slot channel for concrete, tiles and resin floor can be easily specified in respect of project requirements.

Product benefits

- Tested and certified according to EN 1253
- 1.5 mm material thickness
- Slot of channel 8 or 20
- Length – up to customer request
- Longitudinal slopes of the channel bottom 1-5 %
- Outlet position central or variable in longitudinal axis
- Adjustable EasyFix levelling feet
- Anchors for fixing in concrete
- Protective covers available for gully tops. See page 264 for more details

Instructions

- Please define channel dimensions by filling out required entry fields
- For technical support, please contact customerservice@aco.cz
- For Industrial Drainage information, visit www.buildingdrainage.aco

Hygienic design principles don't apply to slot channels.

Step 1 - Material



Stainless steel grade 1.4301 (AISI 304)



Stainless steel grade 1.4404 (AISI 316L)

Step 2 - Edge profile



Detail of the Edge profile



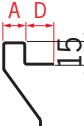
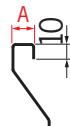
Standard edge



Extended edge



Folded edge



Edge infill type



Rubber edge infill



PUR edge infill



Steel edge infill



No edge infill

Edge infill type



Rubber edge infill



PUR edge infill



Steel edge infill



No edge infill

Edge width (A)



15 mm



25 mm

Edge width (A)



15 mm



25 mm

Flange length (D)



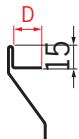
50 mm



Custom: mm

Step 2 - Edge profile

Folded edge with flange



Flange length (D)

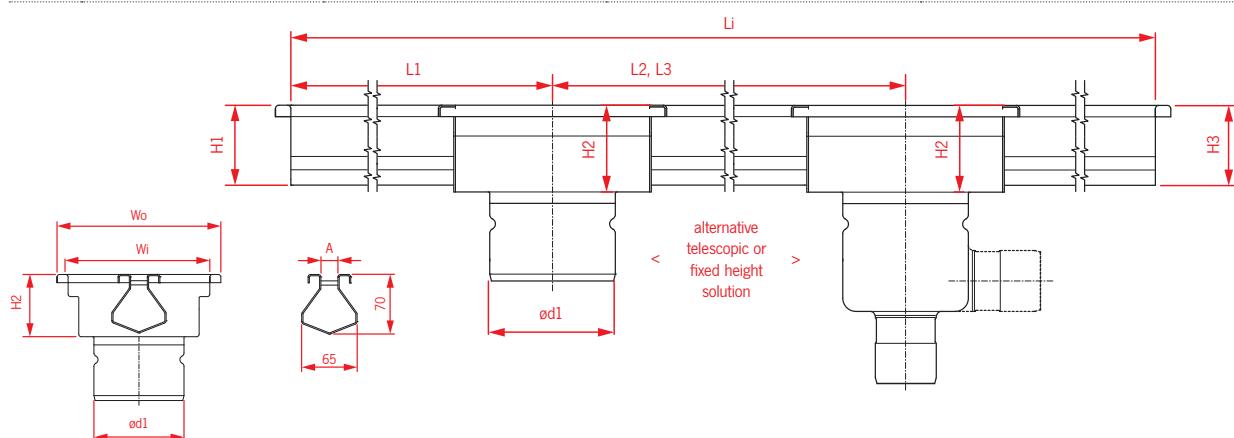
50 mm

Custom: mm

Vinyl edge



Step 3 - Channel dimensions



Gully top dimensions

Gully top (Wo) / Outlet (od2)

Slot width

(A)

Channel height at outlet

(H2)

Channel length

(Li)

3

200 x 200 mm / 75 mm
(valid for edge width 15 mm)

8 mm

mm mm

200 x 200 mm / 110 mm
(valid for edge width 15 mm)

20 mm

Slope

Number of outlets and
their spacing (L1-L4)***

200 x 200 mm / 125 mm
(valid for edge width 15 mm)

No

L1: mm

250 x 250 mm / 142 mm
(valid for edge width 15 mm)

Yes - 1%

L2: mm

300 x 300 mm / 200 mm
(valid for edge width 15 mm)

Yes - height defined**

L3: mm

Custom*:

H1: mm

L4: mm

Wo: mm

H3: mm

Wi: mm

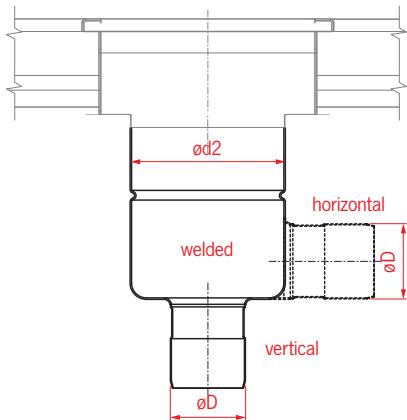
* For gully top with standard edge width of 15 mm subtract 30 mm from overall width as value for internal width

** If you require values below 50 mm, please contact technical support

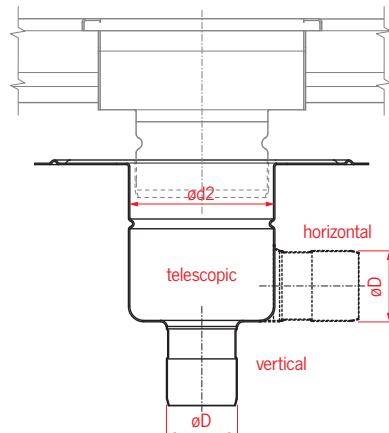
*** For higher number of outlets, please contact technical support

Step 4 - Gully construction

Welded gully



Telescopic gully



Outlet orientation and dimensions

Vertical outlet

(Ød2 / ØD)

142 / 75 (1.4 l/s)

142 / 110 (1.6 l/s)

157 / 75 (2.7 l/s)

157 / 110 (3.5 l/s)

218 / 110 (5.0 l/s)

218 / 160 (5.0 l/s)

Horizontal outlet

(Ød2 / ØD)

142 / 75 (1.4 l/s)

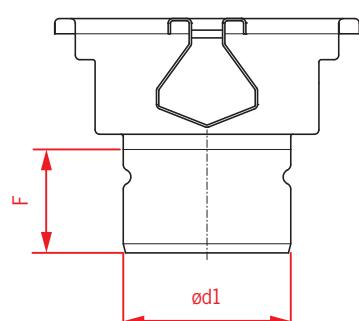
142 / 110 (1.6 l/s)

157 / 75 (2.6 l/s)

157 / 110 (2.8 l/s)

218 / 110 (4.4 l/s)

Without gully (outlet pipe only)



Location flange
(For telescopic gully only)



Bonding flange
(For telescopic gully only)



Mechanical clamping flange
(For telescopic gully only)



Outlet diameter (Ød1)	Outlet length (F)
---------------------------------	-----------------------------

<input type="checkbox"/> 75 mm (valid for gully top 200 x 200 mm)	<input type="checkbox"/> 36 mm
<input type="checkbox"/> 110 mm (valid for gully top 200 x 200 mm)	<input type="checkbox"/> 58 mm
<input type="checkbox"/> 125 mm (valid for gully top 200 x 200 mm)	<input type="checkbox"/> 150 mm
<input type="checkbox"/> 142 mm (valid for gully top 250 x 250 mm)	<input type="checkbox"/> Custom: <input type="text"/> mm
<input type="checkbox"/> 200 mm (valid for gully top 300 x 300 mm)	

ACO slot channel

ACO customized slot channel

Step 5 - Accessories

Foul air trap included



Yes

No

Silt basket included



Yes

No

Raising piece included

Yes

With Location flange

With Bonding flange

With Mechanical clamping flange

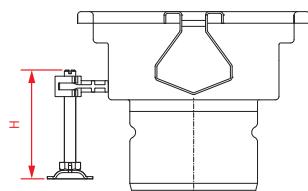
No



ACO EasyFix

levelling feet height (H)

80 mm (standard)



110 mm

170 mm

200 mm

ACO Protective

covers included

Yes

No



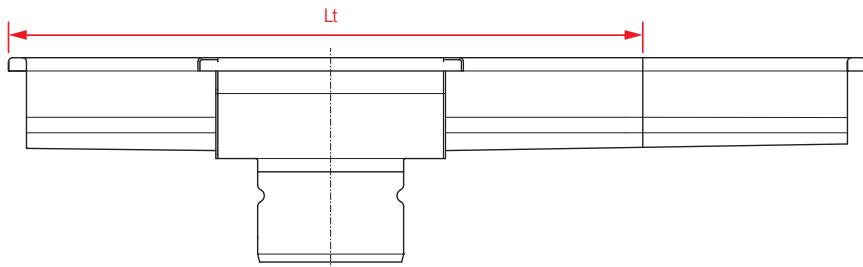
3

Step 6 - Delivery requirements

Maximum transport length

(Lt)

6000 mm (standard)



3000 mm

2000 mm

Step 7 - Gratings

ACO frameless ladder grating



Slip resistant Plain

ACO hygienic ladder grating



Slip resistant Plain

ACO mesh grating



Slip resistant Plain

Load class

M 125
(valid up to Wo = 300 mm)

R 50
(valid up to Wo = 300 mm)

L 15
(valid up to Wo = 300 mm)

M 125
(valid up to Wo = 300 mm)

R 50
(valid up to Wo = 300 mm)

N 250
(valid up to Wo = 300 mm)

ACO hygienic slot cover



Slip resistant

ACO perforated grating



Plain

ACO multi-slot 5 grating



Slip resistant

Load class

M 125
(valid up to Wo = 300 mm)

L 15
(valid up to Wo = 300 mm)

L 15
(valid up to Wo = 300 mm)

ACO heelsafe grating



Plain

R 50
(valid up to Wo = 300 mm)

Without grating

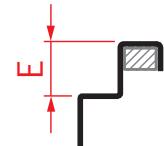
Load class

L 15
(valid up to Wo = 300 mm)

Height of gratings (E)

20 mm

25 mm



30 mm

40 mm

Introduction to ACO modular channel

ACO modular channel portfolio

The ACO modular channel range includes channels for all common applications and all common floor types (concrete, tiles, resin or vinyl).

Selecting a channel from the range is easy. The unique variability of the whole portfolio makes it easy to choose the right channel according to a specific customer's needs.

Channel's length, depth and outlet position are just a few of the parameters which can be varied and, regardless of the variations specified, there is no impact on delivery lead times.

ACO modular channel ordering

The dimensions of the ACO modular channel can be easily specified in respect of project requirements.

ACO modular channel customization

In addition, all ACO modular channels can be designed to a special length.

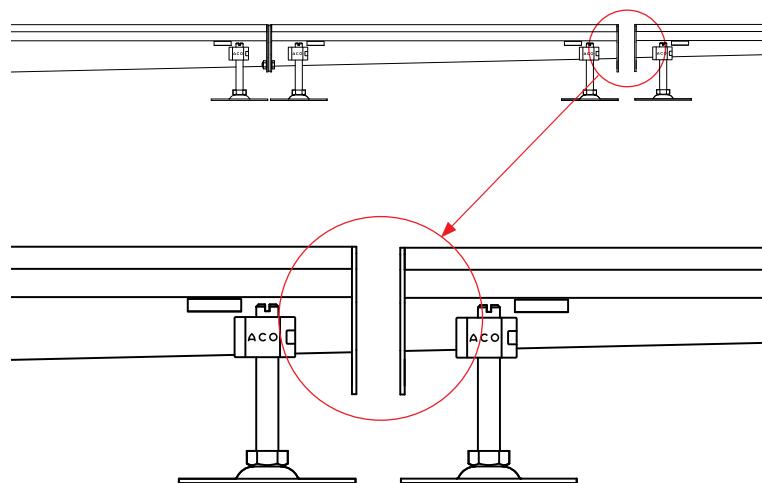
To request customised ACO modular channel, please contact our Sales/Technical department.

3

ACO modular sloped channel connection

Sloped channels are provided with rubber seal at the deep end of the channel only.

If your design plan includes channels connection at shallow ends, make sure that appropriate amount of rubber seals is included in your order.



ACO modular channel system overview



ACO modular box channel 125

ACO modular box channel 200

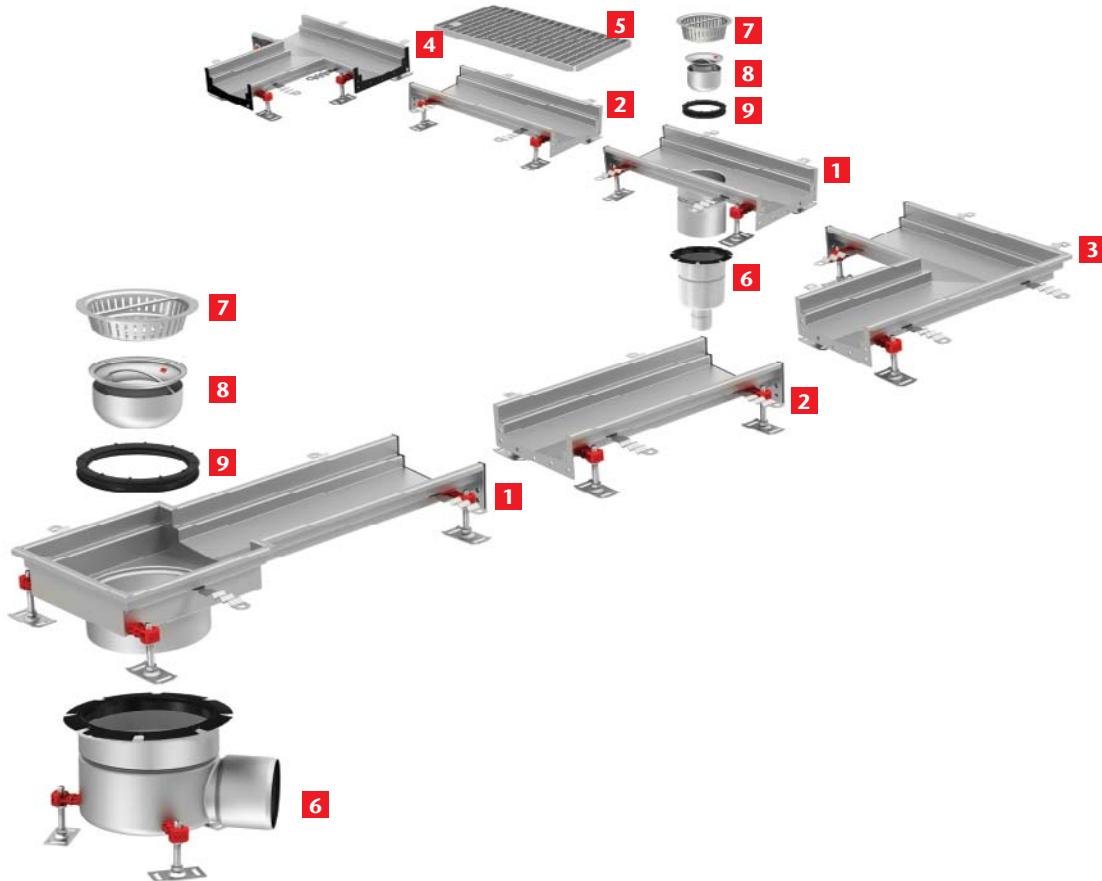
ACO modular slot channel 20



ACO gully
with accessories

3

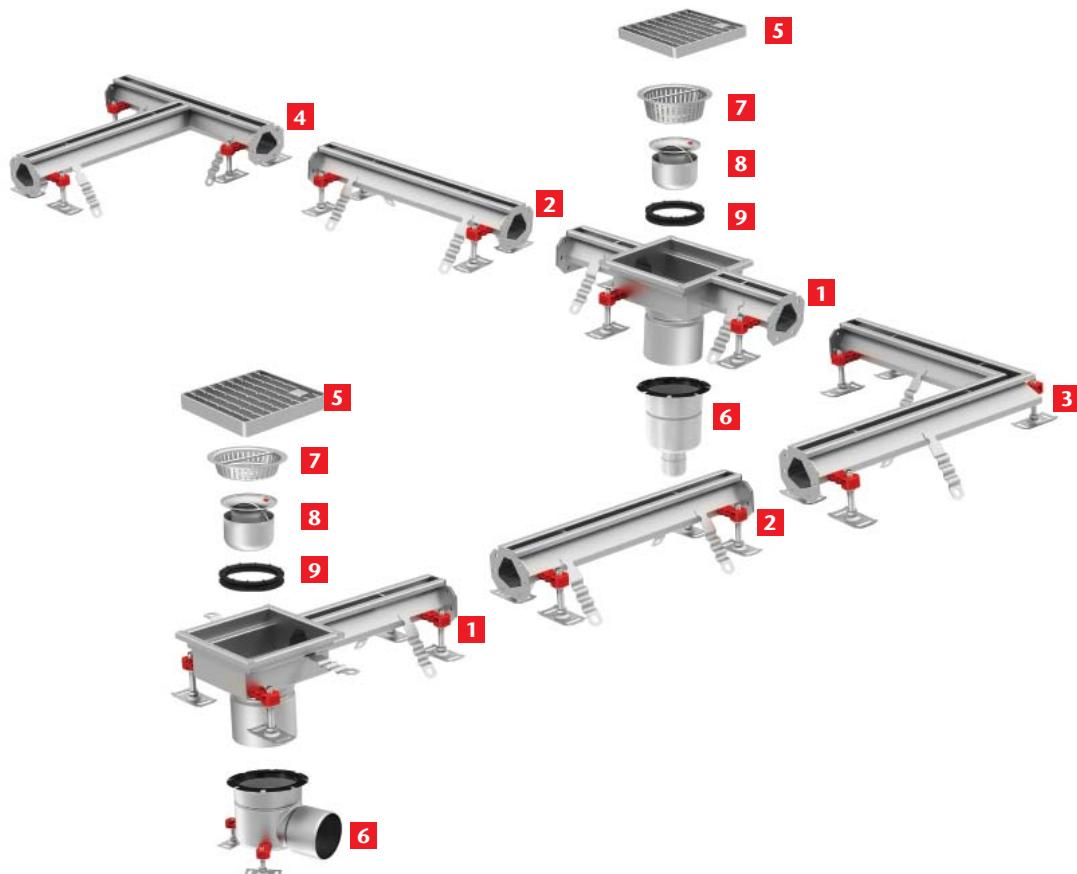
ACO modular box channel system overview



3

- | | | | |
|----------|-----------------------------------------|----------|-----------------------|
| 1 | Outlet unit | 6 | Gully |
| 2 | Level invert and sloping invert channel | 7 | Silt basket |
| 3 | Corner unit | 8 | Foul air trap |
| 4 | Branch unit | 9 | Foul air trap support |
| 5 | Grating | | |

ACO modular slot channel system overview



3

- | | | | |
|----------|-----------------------------------------|----------|-----------------------|
| 1 | Outlet unit | 6 | Gully |
| 2 | Level invert and sloping invert channel | 7 | Silt basket |
| 3 | Corner unit | 8 | Foul air trap |
| 4 | Branch unit | 9 | Foul air trap support |
| 5 | Grating | | |

ACO modular box channel 125 standard articles

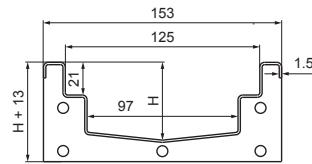
Product information

Modular concept allows specification of standard channel units to surround machinery and fit within existing tiling patterns.

Vee-bottomed (V) profiled channel for enhanced flow efficiency at low flow rates and for improved self cleaning performance.

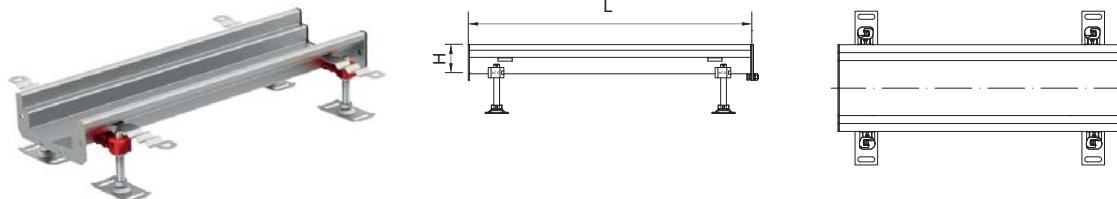
Product benefits

- Fully compliant to EN 1253
- Fully tested and classified to EN 1433
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Easy and secure telescopic connection with gully
- Cut on demand items available to minimize works on site
- Wide range of gratings for load class up to C 250 (EN 1433)



Order information

Level invert channel



3

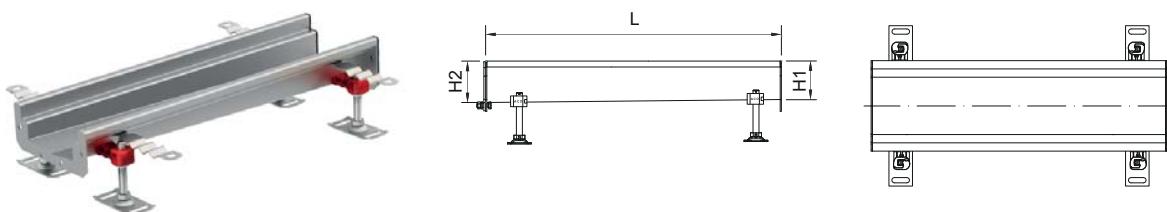
	Dimensions	Item number		
	L [mm]	H [mm]	1.4301	1.4404
500		50	105119	407211
		65	105120	407212
		80	105121	407213
		95	105122	407214
		110	105123	407215
		125	105124	407216
1000		50	105127	407217
		65	105128	407218
		80	105129	407219
		95	105130	407220
		110	105131	407221
		125	105132	407222
2000		50	105135	407223
		65	105136	407224
		80	105137	407225
		95	105138	407226

Gratings for ACO modular box channel 125 → Page 164

Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
2000	110	105139	407227
	125	105140	407228
	50	105143	407229
	65	105144	407230
	80	105145	407231
	95	105146	407232
3000	110	105147	407233
	125	105148	407234

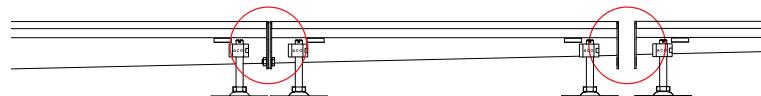
Note: Items are equipped with seal and connecting material on one side.

Sloping invert channel

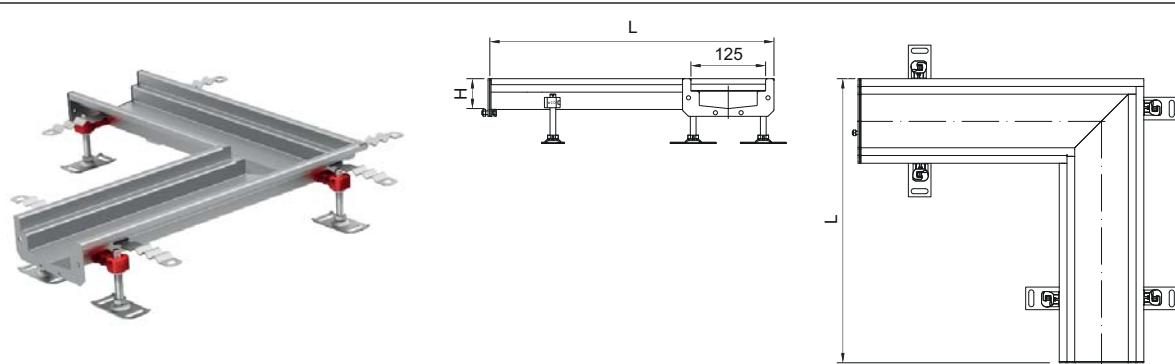


Dimensions		Item number		
L [mm]	H1 [mm]	H2 [mm]	1.4301	1.4404
500	50	65	105151	407235
	65	80	105152	407236
1000	50	65	105155	407237
	65	80	105156	407238
	80	95	105157	407239
	95	110	105158	407240
	50	65	105161	407241
	65	80	105162	407242
2000	80	95	105163	407243
	95	110	105164	407244
	110	125	105165	407245
	50	65	105168	407246
	65	80	105169	407247
	80	95	105170	407248
3000	95	110	105171	407249
	110	125	105172	407250
	50	80	408821	408824
	65	95	408822	408825
6000	95	125	408823	408826

Note: Items are equipped with seal and connecting material on deeper side only. See page 148 for more details.



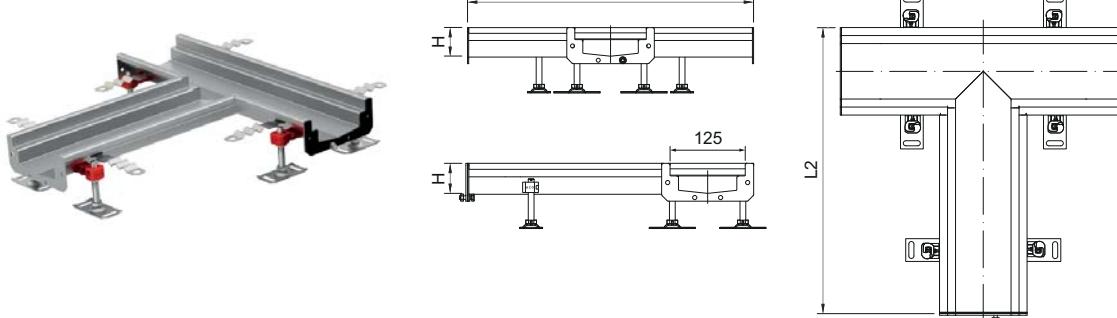
Corner unit



Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
515	50	409812	409818
	65	409813	409819
	80	409814	409820
	95	409815	409821
	110	409816	409822
	125	409817	409823

Note: Items are equipped with seal and connecting material on one side.

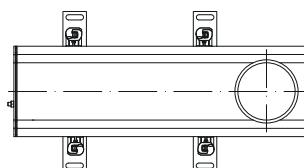
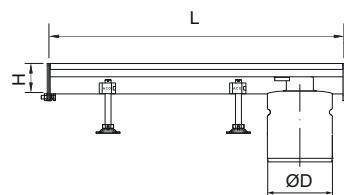
Branch unit



Dimensions		Item number		
L1 [mm]	L2 [mm]	H [mm]	1.4301	1.4404
500	515	50	409824	409830
		65	409825	409831
		80	409826	409832
		95	409827	409833
		110	409828	409834
		125	409829	409835

Note: Items are equipped with seal and connecting material on one side.

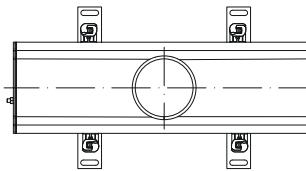
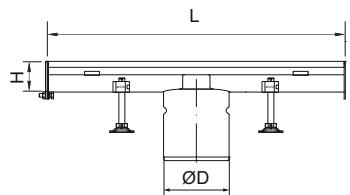
End outlet



Dimensions		Gully	Outlet diameter	Item number	
L [mm]	H [mm]		ØD [mm]	1.4301	1.4404
500	50	ACO gully EG150	110	105175	407251
	65			105176	407252
	80			105177	407253
	95			105178	407254
	110			105179	407255
	125			105180	407256
	50			105183	407257
	65			105184	407258
	80			105185	407259
	95			105186	407260
1000	110	ACO hygienic gully 142	125	105187	407261
	125			105188	407262
	50			415946	415991
	65			415947	415992
	80			415948	415993
	95			415949	415994
	110			415950	415995
	125			415951	415996
	50			415952	415997
	65			415953	415998
500	80	ACO hygienic gully 157	142	415954	415999
	95			415955	416000
	110			415956	416001
	125			415957	416002
	50			409732	409733
	65			409736	409737
	80			409740	409741
	95			409744	409745
	110			409724	409725
	125			409728	409729
1000	50			409708	409709
	65			409712	409713
	80			409716	409717
	95			409720	409721
	110			409700	409701
	125			409704	409705

Note: Items are equipped with seal and connecting material on one side.

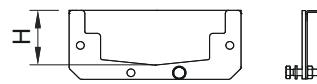


Centre outlet

Dimensions		Gully	Outlet diameter	Item number
L [mm]	H [mm]		ØD [mm]	
500	50	ACO gully EG150	110	105191 407263
	65			105192 407264
	80			105193 407265
	95			105194 407266
	110			105195 407267
	125			105196 407268
1000	50	ACO hygienic gully 142	125	105199 407269
	65			105200 407270
	80			105201 407271
	95			105202 407272
	110			105203 407273
	125			105204 407274
500	50	ACO hygienic gully 157	142	415958 416003
	65			415959 416004
	80			415960 416005
	95			415961 416006
	110			415962 416007
	125			415963 416008
1000	50	ACO hygienic gully 157	142	415964 416009
	65			415965 416010
	80			415966 416011
	95			415967 416012
	110			415968 416013
	125			415969 416014
500	50	ACO hygienic gully 157	142	409734 409735
	65			409738 409739
	80			409742 409743
	95			409746 409747
	110			409726 409727
	125			409730 409731
1000	50	ACO hygienic gully 157	142	409710 409711
	65			409714 409715
	80			409718 409719
	95			409722 409723
	110			409702 409703
	125			409706 409707

Note: Items are equipped with seal and connecting material on one side.

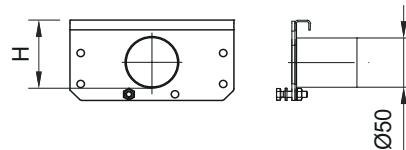
End plate



Dimensions		Item number	
H [mm]		1.4301	1.4404
50		105100	407196
65		105101	407197
80		105102	407198
95		105103	407199
110		105104	407200
125		105105	407201

Note: Items include seal and connecting material.

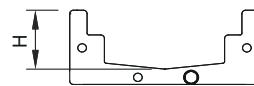
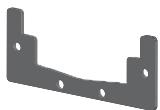
End plate with 50 mm outlet



Dimensions		Item number	
H [mm]		1.4301	1.4404
65		409114	409119
80		409115	409120
95		409116	409121
110		409117	409122
125		409118	409123

Note: Items include seal and connecting material.

Seal rubber



Dimensions		Item number	
H [mm]		NBR	
50		413587	
65		413588	
80		413589	
95		413590	
110		413591	
125		413592	

Note: Items include seal and connecting material.

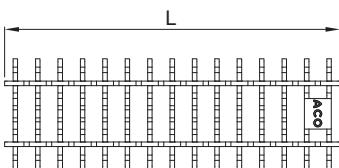
Gratings for ACO modular box channel 125

Product benefits

- Fully tested and classified to EN 1433
- Special length 375 mm for branches and corner units
- Slip resistant gratings available for added user safety
- Load classes A 15, B 125 and C 250

Order information

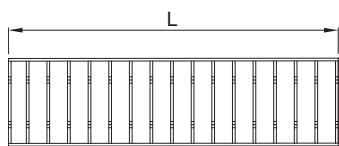
ACO frameless ladder grating



Length L [mm]	Load class	Slip resistant	Material	Item number
375	C 250	Yes	1.4301	446280
			1.4404	446281
500	C 250	Yes	1.4301	446276
			1.4404	446277

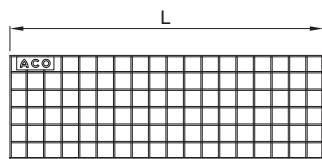
3

ACO ladder grating



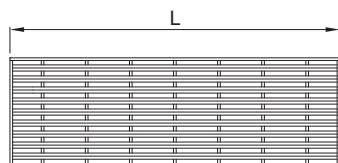
Length L [mm]	Load class	Slip resistant	Material	Item number
375	C 250	Yes	1.4301	414134
			1.4404	414184
500	C 250	Yes	1.4301	21740
			1.4404	21745
1000	C 250	Yes	1.4301	21741
			1.4404	21746

ACO mesh grating



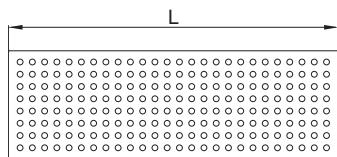
Length L [mm]	Load class	Slip resistant	Material	Item number
375	A 15	No	1.4301	414132
		Yes	1.4404	414182
	C 250	No	1.4301	414130
		Yes	1.4404	414180
		No	1.4301	414133
		Yes	1.4404	414183
500	A 15	No	1.4301	21720
		Yes	1.4404	21725
	C 250	No	1.4301	21710
		Yes	1.4404	21715
		No	1.4301	21920
		Yes	1.4404	21925
1000	A 15	No	1.4301	21620
		Yes	1.4404	21625
	C 250	No	1.4301	21610
		Yes	1.4404	21615
		No	1.4301	21820
		Yes	1.4404	21825

ACO heelsafe grating



Length L [mm]	Load class	Slip resistant	Material	Item number
375	B 125	No	1.4301	414135
			1.4404	414185
500	B 125	No	1.4301	96819
			1.4404	401238
1000	B 125	No	1.4301	96818
			1.4404	401237

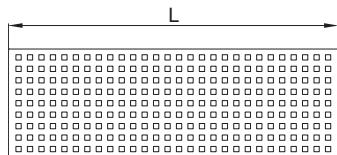
ACO perforated grating



Length L [mm]	Load class	Slip resistant	Locking	Material	Item number
375	A 15	No	No	1.4301	414136
				1.4404	414186
	B 125	No	No	1.4301	414137
				1.4404	414187
	500	A 15	Yes	1.4301	21760
				1.4404	21765
				1.4301	447612
	B 125	No	No	1.4301	447613
				1.4404	21960
				1.4301	21965
1000	A 15	No	Yes	1.4301	447614
				1.4404	447615
				1.4301	21660
	B 125	No	No	1.4404	21665
				1.4301	447616
				1.4404	447617

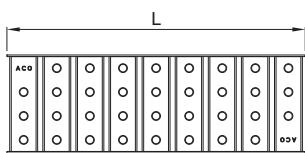
3

ACO quadrato grating



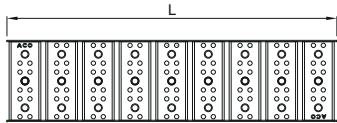
Length L [mm]	Load class	Slip resistant	With lock	Material	Item number
375	A 15	No	No	1.4301	414138
				1.4404	414188
	A 15	No	No	1.4301	105530
				1.4404	413999
	500	A 15	Yes	1.4301	105528
				1.4404	407925
1000	A 15	No	No	1.4301	105529
				1.4404	413998
	A 15	Yes	Yes	1.4301	105527
				1.4404	407924

ACO multi-slot 5 grating



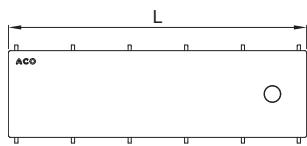
Length L [mm]	Load class	Slip resistant	Material	Item number
375	A 15	Yes	1.4301	414139
			1.4404	414189
500	A 15	Yes	1.4301	409290
			1.4404	409291
1 000	A 15	Yes	1.4301	409286
			1.4404	409287

ACO multi-slot 8 grating



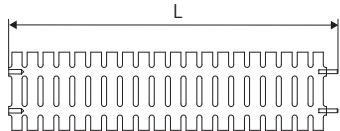
Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	Yes	1.4301	415739
			1.4404	415740
500	B 125	Yes	1.4301	415747
			1.4404	415748
500	C 250	Yes	1.4301	415753
			1.4404	415754
1 000	A 15	Yes	1.4301	415735
			1.4404	415736
1 000	B 125	Yes	1.4301	415743
			1.4404	415744
1 000	C 250	Yes	1.4301	415751
			1.4404	415752

ACO hygienic slot cover



Length L [mm]	Load class	Slip resistant	Material	Item number
375	B 125	Yes	1.4301	445800
			1.4404	445801
	C 250	Yes	1.4301	445802
			1.4404	445803
500	B 125	Yes	1.4301	445792
			1.4404	445793
	C 250	Yes	1.4301	445794
			1.4404	445795
1 000	B 125	Yes	1.4301	445796
			1.4404	445797
	C 250	Yes	1.4301	445798
			1.4404	445799

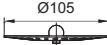
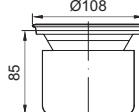
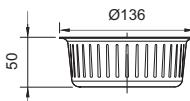
ACO plastic grating



3

Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	No	-	21790
1000	A 15	No	-	21690

Accessories for ACO modular box channel 125

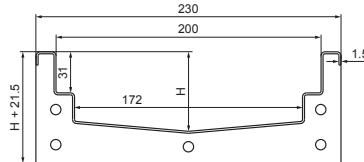
Description	Used with	Material	Item number
 Sieve ■ Stainless steel	■ ACO modular box channel 125 with outlet 110 mm	1.4301 1.4404	97235 97285
 Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular box channel 125 with outlet 110 mm	1.4301 1.4404	97217 97267
 Silt basket ■ Stainless steel ■ 0.5 litre capacity	■ ACO modular box channel 125 with outlet 125 and 142 mm	1.4301 1.4404	414339 414340

ACO modular box channel 200 standard articles

Product information

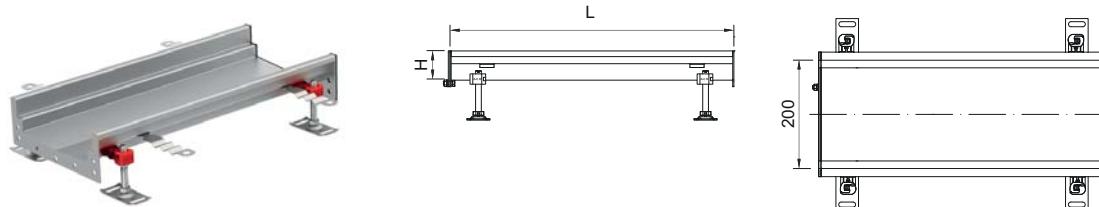
Modular concept allows specification of standard channel units to surround machinery and fit within existing tiling patterns.

Product benefits	
<ul style="list-style-type: none">■ Fully compliant to EN 1253■ Fully tested and classified to EN 1433■ Fully pickled and passivated■ Easy and secure telescopic connection with gully	<ul style="list-style-type: none">■ Cut on demand items available to minimize works on site■ Wide range of gratings for load class up to C 250 (EN 1433)



Order information

Level invert channel

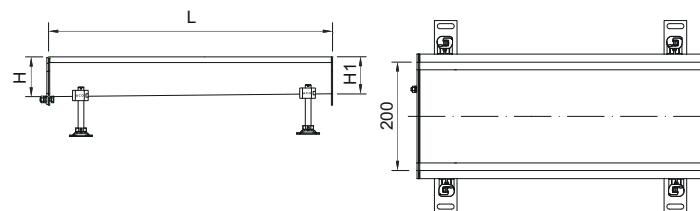


Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
500	60	409072	409050
	70	409047	409051
	80	409048	409052
	100	409049	409053
1000	60	401859	401860
	70	409054	409057
	80	409055	409058
	100	409056	409059
2000	60	401875	401876
	70	409060	409063
	80	409061	409064
	100	409062	409065
3000	60	401895	401896
	70	409066	409069
	80	409067	409070
	100	409068	409071

Note: Items are equipped with seal and connecting material on one side.

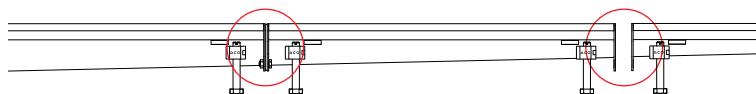
Gratings for ACO modular box channel 200 → Page 178

Sloping invert channel

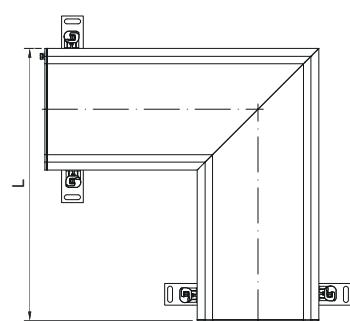
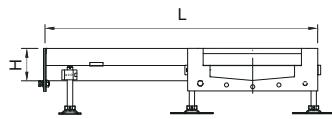


Dimensions			Item number	
L [mm]	H1 [mm]	H2 [mm]	1.4301	1.4404
500	55	60	401855	401856
	60	70	401871	401872
	70	80	402464	402465
1000	80	90	402466	402467
	90	100	402468	402469
	100	110	402470	402471
2000	60	70	401887	401888
	70	80	402472	402473
	80	90	402474	402475
3000	90	100	402476	402477
	100	110	402478	402479
	110	120	402480	402481
6000	60	80	402482	402483
	80	100	402484	402485
	100	120	402486	402487
120	120	140	402488	402489
	60	100	408827	408829
100	100	140	408828	408830

Note: Items are equipped with seal and connecting material on deeper side only. See page 146 for more details.



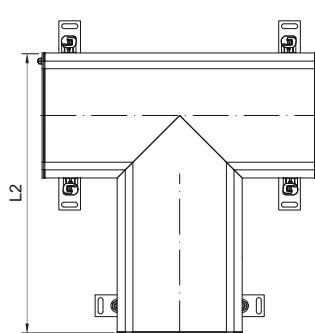
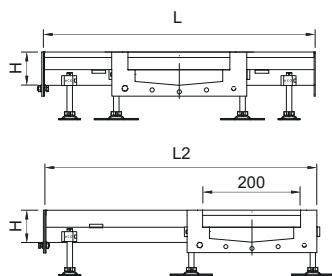
Corner unit



Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
515	60	401921	401922
	80	402490	402491
	100	402492	402493

Note: Items are equipped with seal and connecting material on one side.

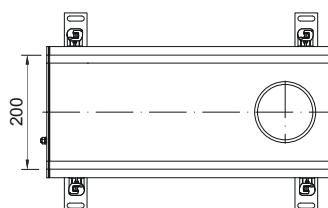
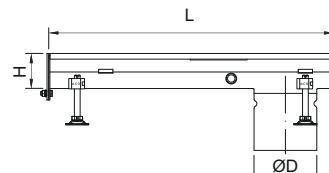
Branch unit



Dimensions		Item number	
L [mm]	H1 [mm]	1.4301	1.4404
500	60	401933	401934
	80	402494	402495
	100	402496	402497

Note: Items are equipped with seal and connecting material on one side.

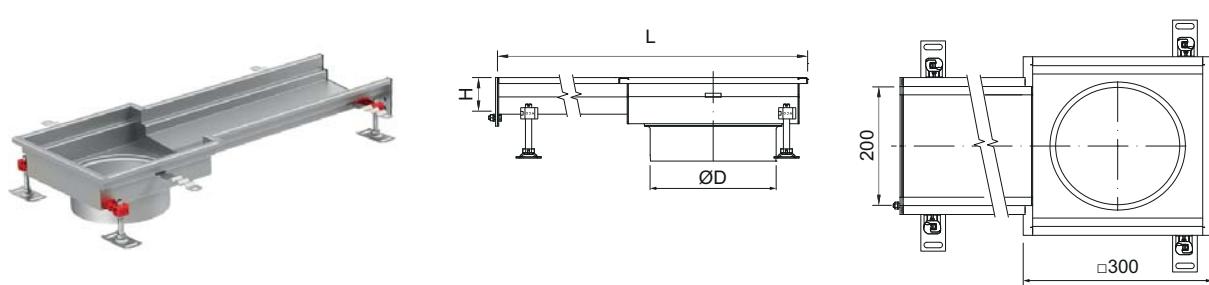
End outlet



Dimensions		Gully	Outlet diameter	Item number	
L [mm]	H [mm]		ØD [mm]	1.4301	1.4404
500	60	ACO gully EG150	110	414275	414283
	70			414276	414284
	80			414277	414285
	90			414278	414286
	100			414279	414287
	110			414280	414288
	120			414281	414289
	140			414282	414290
	60			414291	414299
	70			414292	414300
1000	80	ACO hygienic gully 157	142	414293	414301
	90			414294	414302
	100			414295	414303
	110			414296	414304
	120			414297	414305
	140			414298	414306
	60			409900	409908
	70			409901	409909
	80			409902	409910
	90			409903	409911
500	100	ACO hygienic gully 157	142	409904	409912
	110			409905	409913
	120			409906	409914
	140			409907	409915
	60			409932	409940
	70			409933	409941
	80			409934	409942
	90			409935	409943
	100			409936	409944
	110			409937	409945
1000	120			409938	409946
	140			409939	409947

Note: Items are equipped with seal and connecting material on one side.

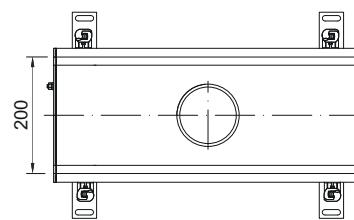
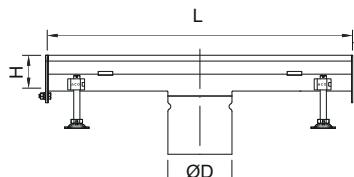
End outlet



Dimensions		Gully	Outlet diameter	Item number	
L [mm]	H [mm]		ØD [mm]	1.4301	1.4404
785	60	ACO hygienic gully 218	200	414259	414267
	70			414260	414268
	80			414261	414269
	90			414262	414270
	100			414263	414271
	110			414264	414272
	120			414265	414273
	140			414266	414274

Note: Items are equipped with seal and connecting material on one side.

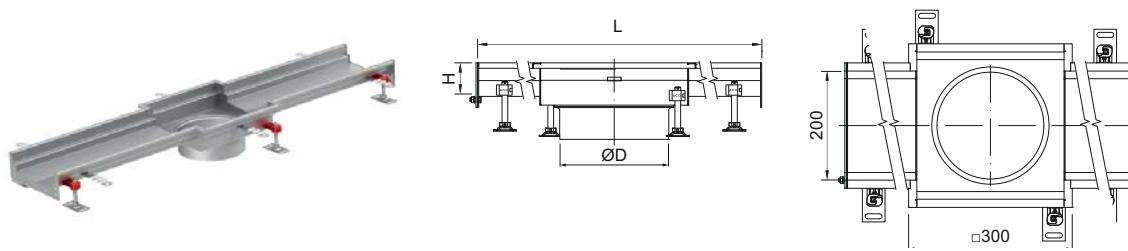
Centre outlet



Dimensions		Gully	Outlet diameter	Item number	
L [mm]	H [mm]		ØD [mm]	1.4301	1.4404
500	60	ACO gully EG150	110	414307	414315
	70			414308	414316
	80			414309	414317
	90			414310	414318
	100			414311	414319
	110			414312	414320
	120			414313	414321
	140			414314	414322
	60			414323	414331
	70			414324	414332
1000	80	ACO hygienic gully 157	142	414325	414333
	90			414326	414334
	100			414327	414335
	110			414328	414336
	120			414329	414337
	140			414330	414338
	60			409916	409924
	70			409917	409925
	80			409918	409926
	90			409919	409927
500	100	ACO hygienic gully 157	142	409920	409928
	110			409921	409929
	120			409922	409930
	140			409923	409931
	60			409948	409956
	70			409949	409957
	80			409950	409958
	90			409951	409959
	100			409952	409960
	110			409953	409961
1000	120			409954	409962
	140			409955	409963

Note: Items are equipped with seal and connecting material on one side.

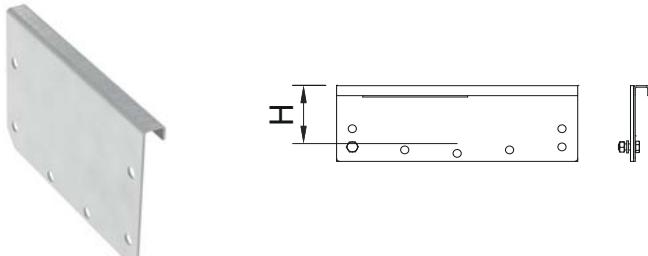
Centre outlet



Dimensions		Gully	Outlet diameter	Item number	
L [mm]	H [mm]		ØD [mm]	1.4301	1.4404
1270	60	ACO hygienic gully 218	200	414243	414251
	70			414244	414252
	80			414245	414253
	90			414246	414254
	100			414247	414255
	110			414248	414256
	120			414249	414257
	140			414250	414258

Note: Items are equipped with seal and connecting material on one side.

End plate

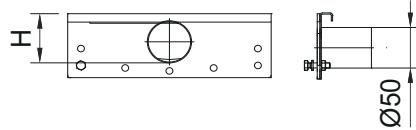


3

Dimensions		Item number	
[mm]		1.4301	1.4404
55		402683	402684
60		402028	402029
70		402030	402031
80		402514	402515
90		402032	402033
100		402516	402517
110		402518	402519
120		402036	402037
140		402520	402521

Note: Items are equipped with seal and connecting material.

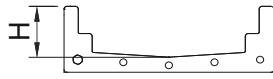
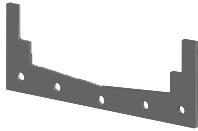
End plate with 50 mm outlet



Dimensions		Item number	
H [mm]		1.4301	1.4404
55		402001	402002
60		402003	402004
70		402005	402006
80		402034	402035
90		402007	402008
100		402024	402025
110		402020	402021
120		402022	402023
140		401999	402000

Note: Items are equipped with seal and connecting material.

Seal rubber



Dimensions		Item number
H [mm]		NBR
60		413593
70		413594
80		413595
90		413596
100		413597
110		413598
120		413599
140		413600

Note: Items are equipped with seal and connecting material.

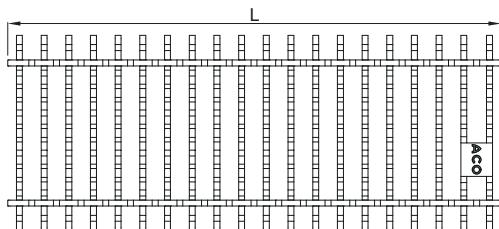
Gratings for ACO modular box channel 200

Product benefits

- Fully tested and classified to EN 1433
- Special length 300 mm for branches and corner units
- Slip resistant gratings available for added user safety
- Load classes A 15, B 125 and C 250

Order information

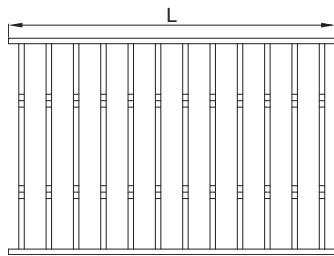
ACO frameless ladder grating



Length L [mm]	Load class	Slip resistant	Material	Item number
300	C 250	Yes	1.4301	446288
			1.4404	446289
500	C 250	Yes	1.4301	446284
			1.4404	446285

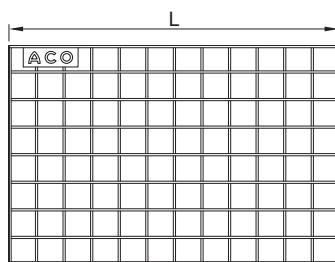
3

ACO ladder grating



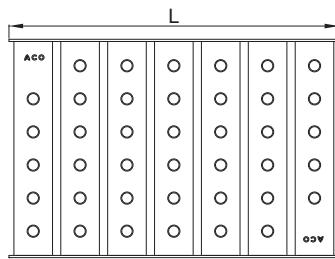
Length L [mm]	Load class	Slip resistant	Material	Item number
300	C 250	Yes	1.4301	414142
			1.4404	414192
500	C 250	Yes	1.4301	92214
			1.4404	92264
1000	C 250	Yes	1.4301	92215
			1.4404	92265

ACO mesh grating



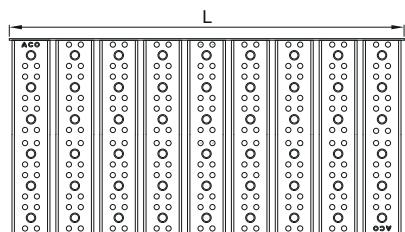
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	No	1.4301	414141
			1.4404	414191
	A 15	Yes	1.4301	414140
			1.4404	414190
500	A 15	No	1.4301	92207
			1.4404	92257
	A 15	Yes	1.4301	92200
			1.4404	92250
1000	A 15	No	1.4301	92208
			1.4404	92258
	A 15	Yes	1.4301	92201
			1.4404	92251

ACO multi-slot 5 grating



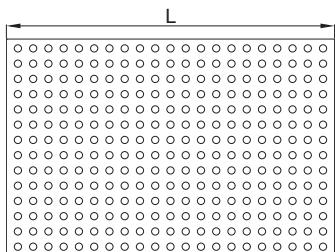
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	Yes	1.4301	414145
			1.4404	414195
500	A 15	Yes	1.4301	409292
			1.4404	409293
1000	A 15	Yes	1.4301	409288
			1.4404	409289

ACO multi-slot 8 grating



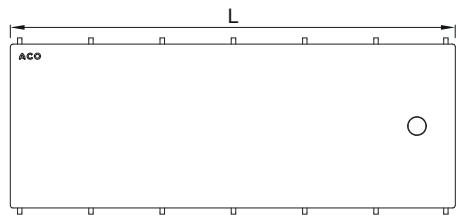
Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	Yes	1.4301	415741
			1.4404	415742
1000	B 125	Yes	1.4301	415749
			1.4404	415750
	A 15	Yes	1.4301	415737
			1.4404	415738
	B 125	Yes	1.4301	415745
			1.4404	415746

ACO perforated grating



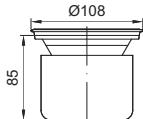
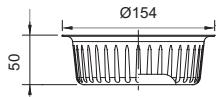
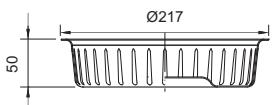
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	No	1.4301	414143
			1.4404	414193
500	A 15	No	1.4301	402689
			1.4404	405188
1000	A 15	No	1.4301	402688
			1.4404	405187

ACO hygienic slot cover



Length L [mm]	Load class	Slip resistant	Material	Item number
300	B 125	Yes	1.4301 1.4404	445812 445813
	C 250	Yes	1.4301 1.4404	445814 445815
500	B 125	Yes	1.4301 1.4404	445804 445805
	C 250	Yes	1.4301 1.4404	445806 445807
1 000	B 125	Yes	1.4301 1.4404	445808 445809
	C 250	Yes	1.4301 1.4404	445810 445811

Accessories for ACO modular box channel 200

Description	Used with	Material	Item number
 Sieve ■ Stainless steel	■ ACO modular box channel 200 with outlet 110 mm	1.4301 1.4404	97235 97285
 Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular box channel 200 with outlet 110 mm	1.4301 1.4404	97217 97267
 Silt basket ■ Stainless steel ■ 0.6 litre capacity	■ ACO modular box channel 200 with outlet 142 mm	1.4301 1.4404	408202 408212
 Silt basket ■ Stainless steel ■ 1.4 litre capacity	■ ACO modular box channel 200 with outlet 200 mm	1.4301 1.4404	408222 408232

ACO modular slot channel 20 standard articles

Product information

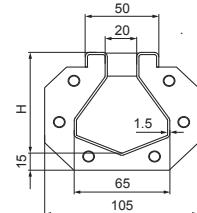
Ideal for wash-down applications or as a water break between designed wet and dry areas.

Modular concept allows specification of standard channel units to surround machinery and fit within existing tiling patterns.

Vee-bottomed (V) profiled channel for enhanced flow efficiency at low flow rates and for improved self cleaning performance.

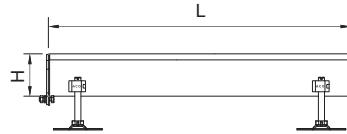
Product benefits

- Fully compliant to EN 1253
- Fully tested and classified to EN 1433
- Wide range of gratings for load class up to C 250 (EN 1433)



Order information

Level invert channel

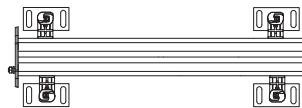
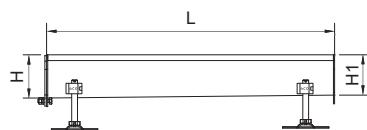


3

Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
500	70	92300	92350
	90	92301	92351
	120	92302	92352
1000	70	92305	92355
	90	92306	92356
	120	92307	92357
2000	70	92310	92360
	90	92311	92361
	120	92312	92362
3000	70	92316	92366
	90	92317	92367
	120	92318	92368

Note: Items are equipped with seal and connecting material on one side.

Sloping invert channel

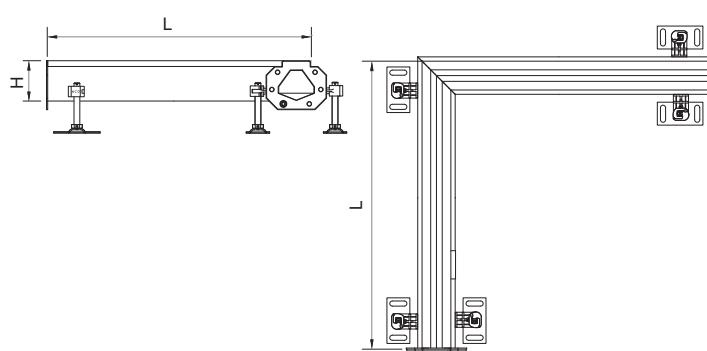


Dimensions			Item number	
L [mm]	H1 [mm]	H2 [mm]	1.4301	1.4404
500	70	75	92303	92353
	75	80	92304	92354
1000	70	75	92308	92358
	75	80	92309	92359
2000	70	80	92313	92363
	80	90	92314	92364
	90	100	92315	92365
3000	70	80	92319	92369
	80	90	92320	92370
	90	100	92321	92371
6000	100	110	92322	92372
	110	120	92323	92373
	70	90	409014	409015
	90	110	409016	409017

Note: Items are equipped with seal and connecting material on deeper side only. See page 146 for more details.



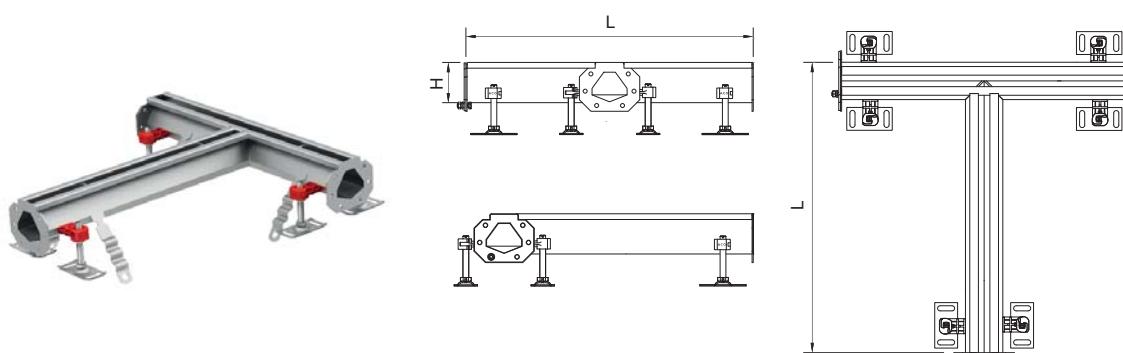
Corner unit



Dimensions			Item number	
L [mm]	H [mm]		1.4301	1.4404
500	70		92338	92388
	75		92339	92389
	80		92340	92390
	90		92341	92391
	100		92342	92392
	110		92343	92393
	120		92344	92394

Note: Items are equipped with seal and connecting material on one side.

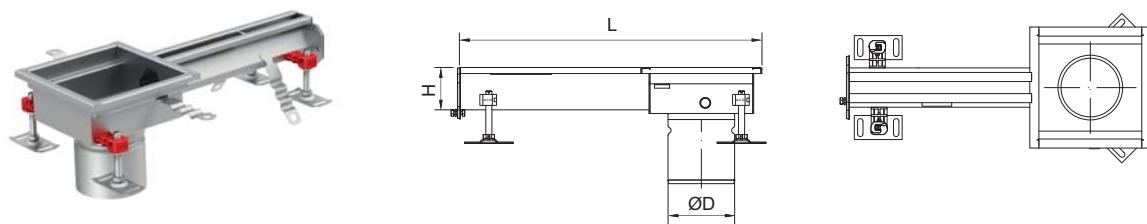
Branch unit



Dimensions		Item number	
L [mm]	H [mm]	1.4301	1.4404
500	70	92345	92395
	75	92346	92396
	80	92347	92397
	90	92348	92398
	100	92349	92399
	110	92400	92450
	120	92401	92451

Note: Items are equipped with seal and connecting material on one side.

End outlet



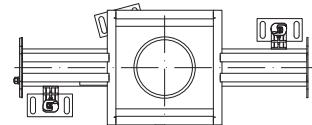
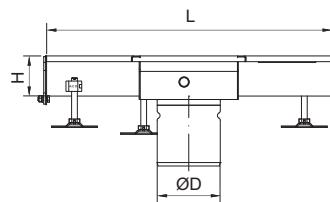
Dimensions		Gully	Gully top [mm]	Outlet diameter	Item number	
L [mm]	H [mm]		[mm]	ØD [mm]	1.4301	1.4404
500	70	ACO gully EG150	200 x 200	110	414341	414348
	75				414342	414349
	80				414343	414350
	90				414344	414351
	100				414345	414352
	110				414346	414353
	120				414347	414354
	70				415925	415970
	75				415926	415971
	80				415927	415972
	90				415928	415973
	100				415929	415974
	110				415930	415975
	120				415931	415976

Note: Items are equipped with seal and connecting material on one side.

End outlet

Dimensions		Gully	Gully top	Outlet diameter	Item number	
L [mm]	H [mm]		[mm]	ØD [mm]	1.4301	1.4404
500	70	ACO hygienic gully 157	250 x 250	142	414201	414208
	75				414202	414209
	80				414203	414210
	90				414204	414211
	100				414205	414212
	110				414206	414213
	120				414207	414214

Note: Items are equipped with seal and connecting material on one side.

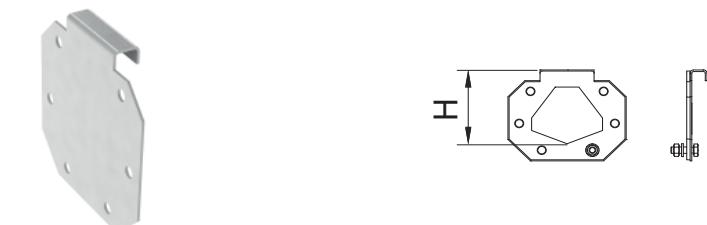
Centre outlet

Dimensions		Gully	Gully top	Outlet diameter	Item number	
L [mm]	H [mm]		[mm]	ØD [mm]	1.4301	1.4404
500	70	ACO gully EG150	200 x 200	110	414355	414362
	75				414356	414363
	80				414357	414364
	90				414358	414365
	100				414359	414366
	110				414360	414367
	120				414361	414368
	70				414369	414376
1000	75				414370	414377
	80				414371	414378
	90				414372	414379
	100				414373	414380
	110				414374	414381
	120				414375	414382
	70				415932	415977
	75				415933	415978
500	80	ACO hygienic gully 142	200 x 200	125	415934	415979
	90				415935	415980
	100				415936	415981
	110				415937	415982
	120				415938	415983

Dimensions		Gully	Gully top [mm]	Outlet diameter øD [mm]	Item number
L [mm]	H [mm]				1.4301 1.4404
1000	70	ACO hygienic gully 142	200 x 200	125	415939 415984
	75				415940 415985
	80				415941 415986
	90				415942 415987
	100				415943 415988
	110				415944 415989
	120				415945 415990
	70				414215 414222
	75				414216 414223
500	80	ACO hygienic gully 157	250 x 250	142	414217 414224
	90				414218 414225
	100				414219 414226
	110				414220 414227
	120				414221 414228
	70				414229 414236
	75				414230 414237
	80				414231 414238
	90				414232 414239
1000	100				414233 414240
	110				414234 414241
	120				414235 414242

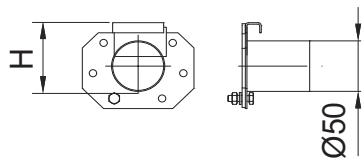
Note: Items are equipped with seal and connecting material on one side.

End plate



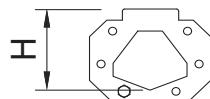
Dimensions		Item number
H [mm]		1.4301 1.4404
70		92324 92374
75		92325 92375
80		92326 92376
90		92327 92377
100		92328 92378
110		92329 92379
120		92330 92380

Note: Items are equipped with seal and connecting material.

End plate with 50 mm outlet

Dimensions	Item number	
H [mm]	1.4301	1.4404
70	92331	92381
75	92332	92382
80	92333	92383
90	92334	92384
100	92335	92385
110	92336	92386
120	92337	92387

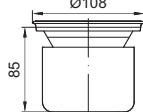
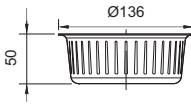
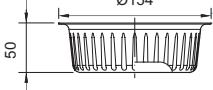
Note: Items are equipped with seal and connecting material.

Seal rubber

Dimensions	Item number	
H [mm]	NBR	
70	413601	
75	413602	
80	413603	
90	413604	
100	413605	
110	413606	
120	413607	

Note: Items are equipped with seal and connecting material.

Accessories for ACO modular slot channel 20

Description	Used with	Material	Item number
 Sieve ■ Stainless steel	■ ACO modular slot channel 20 with outlet 110 mm	1.4301 1.4404	97235 97285
 Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular slot channel 20 with outlet 110 mm	1.4301 1.4404	97217 97267
 Silt basket ■ Stainless steel ■ 0.5 litre capacity	■ ACO modular slot channel 20 with outlet 125 mm	1.4301 1.4404	414339 414340
 Silt basket ■ Stainless steel ■ 0.6 litre capacity	■ ACO modular slot channel 20 with outlet 142 mm	1.4301 1.4404	408202 408212

ACO modular channel semi-standard

Product information

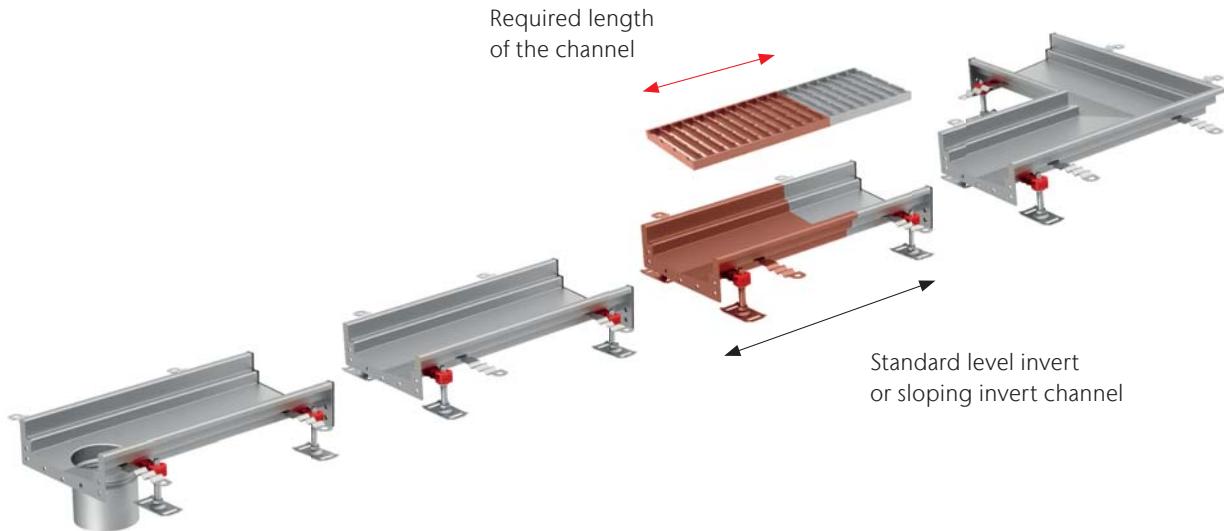
Semi-standard items provide an easy and fast way to get a slot or box channel of a special length to complete a linear drainage project with standard stock items. Simply specify the length you need.

How to specify semi-standard items:

Contact our customer service for assistance or use ACO Configurator to specify the dimensions of the semi-standard part which will be then produced.

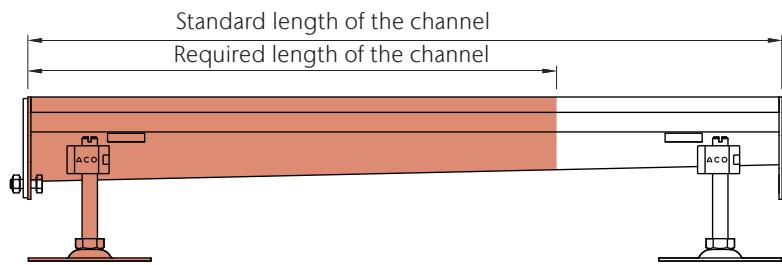
How it works:

The semi-standard item is produced according to customer's need with standard flanges. The item is equipped with flange and sealing and perfectly fits the following channel in the drainage project without any step in the channel body for perfect cleanability. Grating of the same length is also produced.



3

- Specify the required length of the channel and connecting heights.



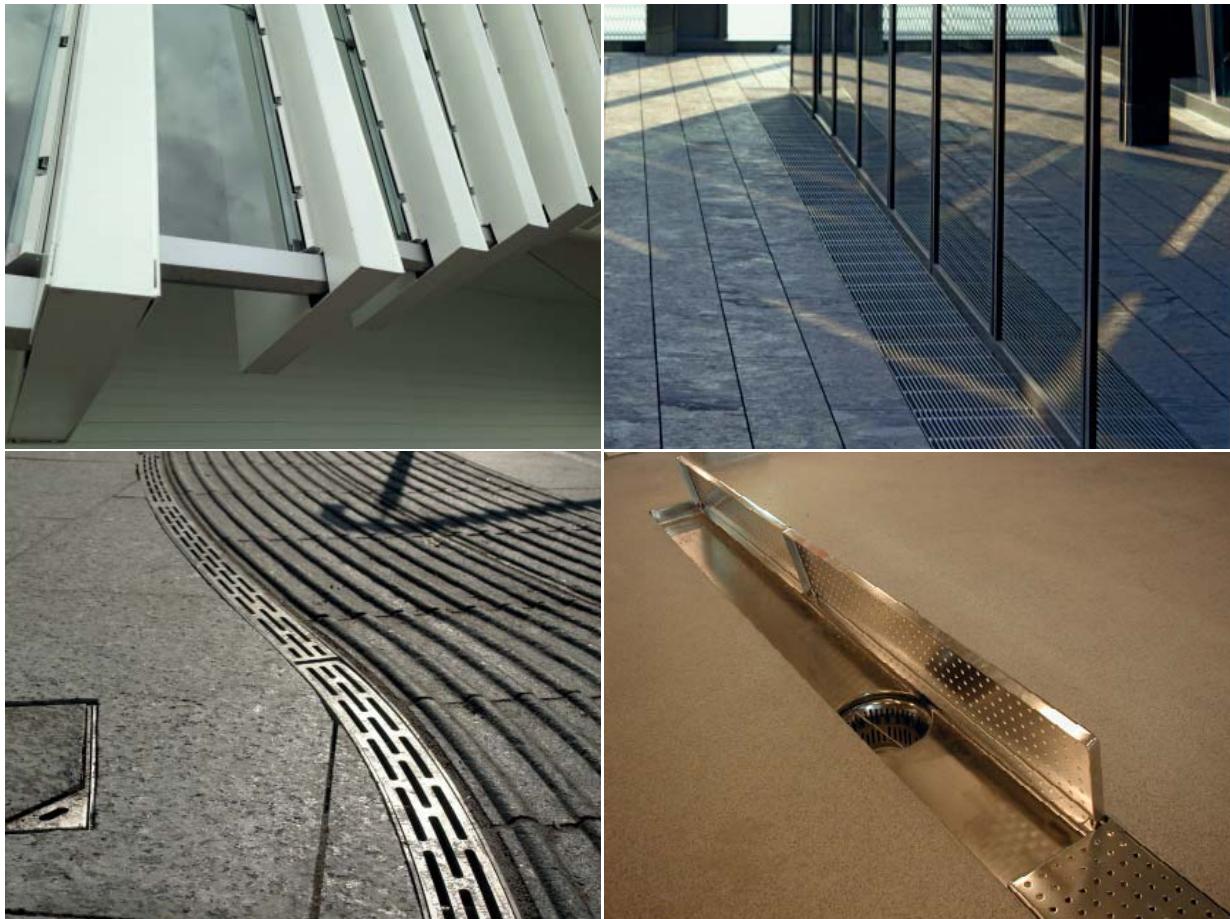
ACO design channel

Product information

Even atypical solutions can be easily realised using stainless steel. The broad spectrum of finishes and shapes gives complete design freedom.

Customers' individual channel designs will be managed by our expert team with tailor-made services for specific projects with full proposal information, CAD layout drawings and assembly instructions.

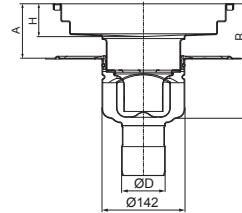
Contact our Sales/Technical department team and we will help you with your project.



3

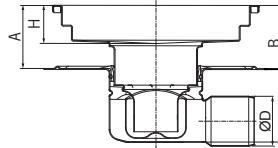
Flow rates and construction heights

ACO channel – ACO hygienic gully 142, vertical



Outlet diameter <i>ØD</i>	Outlet position	Flow rate [l/s]	
		H = 60 mm	
		A min. = 85	A max. = 115
75	Vertical	B min. = 194	B max. = 224
110		1.4	1.7
		1.6	1.9

ACO channel – ACO hygienic gully 142, horizontal



Outlet diameter <i>ØD</i>	Outlet position	Flow rate [l/s]	
		H = 60 mm	
		A min. = 75	A max. = 115
75	Horizontal	B min. = 185	B max. = 245
110		1.4	1.7
		1.6	1.9

Notes:

A min. and B min. values can be reduced by 15 mm if earth screw is removed and channel outlet spigot shortened. Please be aware that channel outlet pipe shortening affects the A max. and B max. values.

Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)

ACO channel – ACO hygienic gully 157, vertical

Outlet diameter øD	Outlet position Vertical	Flow rate [l/s]	
		H = 60 mm	
		A min. = 85	A max. = 115
B min. = 232	B max. = 262		
75		2.9	3.1
110		3.9	4.2

ACO channel – ACO hygienic gully 157, horizontal

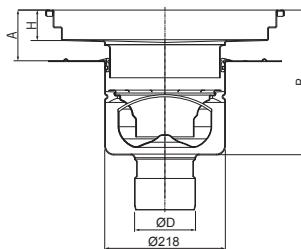
Outlet diameter øD	Outlet position Horizontal	Flow rate [l/s]	
		H = 60 mm	
		A min. = 75	A max. = 115
B min. = 242	B max. = 285		
75		2.8	3.1
110		3.2	3.9

Notes:

A min. and B min. values can be reduced by 15 mm if earth screw is removed and channel outlet spigot shortened. Please be aware that channel outlet pipe shortening affects the A max. and B max. values.

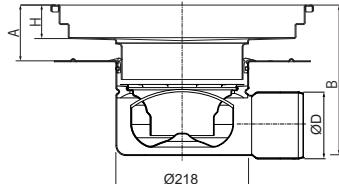
Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)

ACO channel – ACO hygienic gully 218, vertical



Outlet diameter	Outlet position	Flow rate [l/s]									
		H = 60 mm		H = 80 mm		H = 100 mm		H = 150 mm		H = 200 mm	
A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.
= 75	= 115	= 95	= 135	= 115	= 155	= 165	= 205	= 215	= 255		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.
= 245	= 285	= 265	= 305	= 285	= 325	= 335	= 375	= 385	= 425		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
øD											
110	Vertical	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4
160		5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4

ACO channel – ACO hygienic gully 218, horizontal



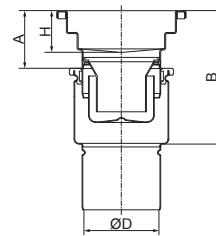
Outlet diameter	Outlet position	Flow rate [l/s]									
		H = 60 mm		H = 80 mm		H = 100 mm		H = 150 mm		H = 200 mm	
A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.
= 85	= 115	= 105	= 135	= 125	= 155	= 175	= 205	= 225	= 255		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.	B min.	B max.
= 235	= 265	= 255	= 285	= 275	= 305	= 325	= 355	= 375	= 405		
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
øD											
110	Horizontal	4.5	4.7	4.8	4.9	4.9	5.1	5.0	5.6	5.6	6.4

Notes:

A min. and B min. values can be reduced by 15 mm if earth screw is removed and channel outlet spigot shortened. Please be aware that channel outlet pipe shortening affects the A max. and B max. values.

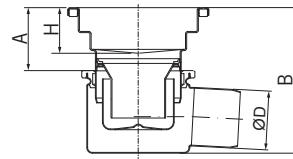
Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)

ACO channel – ACO gully EG150, vertical



Outlet diameter ØD	Outlet position Vertical	Flow rate [l/s]	
		H = 60 mm	
		A min. = 60	A max. = 85
75		B min. = 165	B max. = 190
110		1.3	1.5
		1.3	1.5

ACO channel – ACO gully EG150, horizontal



Outlet diameter ØD	Outlet position Horizontal	Flow rate [l/s]	
		H = 60 mm	
		A min. = 60	A max. = 85
75		B min. = 165	B max. = 190
		1.3	1.5

Notes:

A min. and B min. values can be reduced by 15 mm if earth screw is removed and channel outlet spigot shortened. Please be aware that channel outlet pipe shortening affects the A max. and B max. values.

Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)



4

ACO
Pipe

COLLECT:
Collect and remove



ACO Pipe

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buildingdrainage.aco/products

ACO pipe
online information



Introduction

ACO pipe is the ideal system for gray and black water, rainwater and industrial waste water drainage applications.

When used with ACO gully and ACO channel systems, ACO pipe provides a unique, complex building drainage solution.

ACO pipe and fittings are available in 40 mm, 50 mm, 75 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm external diameters with the standard lengths from 0.15 meter up to 6 meter for optimum practicality and ease of assembly.

ACO pipe push-fit connection

Reliable for vacuum and gravity piping systems.

ACO pipe double lip seal delivers the ultimate system reliability. The unique and sophisticated design of lips and cavities provide tight connections.

Push-fit advantages

- Easy to assemble
- Time saving
- Cost saving
- Tight connection



System overview

Straight pipes



Fittings



Bends



Branches

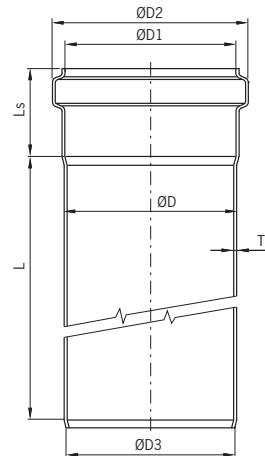


Accessories

Straight pipes

Product benefits

- Lengths from 0.15 meter up to 6 meter
- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully comply to EN 1124
- EPDM and Viton® seals available
- Fully pickled and passivated



Dimensions of socket and spigot

ØD [mm]	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	Socket length Ls [mm]	Wall thickness T [mm]
40	41	51.5	38	40	1.0
50	51	62.0	47	42	1.0
75	76	87.5	72	50	1.0
110	111	125.5	107	57	1.0
125	126	141.0	122	63	1.0
160	161	178.0	156	70	1.25
200	201	219.0	195	80	1.5
250	251	268.6	245	90	1.5
315	316.2	334.2	309	100	2.0

Order information

ACO pipe - straight pipe 40 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	ØD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	40	150	0.2	417304	417320
	40	250	0.3	417306	417322
	40	500	0.6	417308	417324
	40	750	0.8	417310	417326
	40	1000	1.1	417312	417328
	40	1500	1.6	417314	417330
	40	2000	2.1	417316	417332
	40	2500	2.8	417260	417262
	40	3000	3.1	417318	417334
	40	4000	4.1	417264	417270
	40	5000	5.1	417266	417272
	40	6000	6.1	417268	417274

ACO pipe - straight pipe 50 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	50	150	0.2	98500	98550
	50	250	0.4	98502	98552
	50	500	0.7	98504	98554
	50	750	1.0	98506	98556
	50	1000	1.3	98508	98558
	50	1500	1.9	98510	98560
	50	2000	2.6	98512	98562
	50	2500	3.2	419274	419282
	50	3000	3.8	98514	98564
	50	4000	5.0	419458	419482
	50	5000	6.3	419466	419490
	50	6000	7.5	419474	419498

ACO pipe - straight pipe 75 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	75	150	0.4	98516	98566
	75	250	0.6	98518	98568
	75	500	1.0	98520	98570
	75	750	1.5	98522	98572
	75	1000	2.0	98524	98574
	75	1500	2.9	98526	98576
	75	2000	3.6	98528	98578
	75	2500	4.8	419276	419284
	75	3000	5.7	98530	98580
	75	4000	7.6	419460	419484
	75	5000	9.4	419468	419492
	75	6000	11.3	419476	419500

ACO pipe - straight pipe 110 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	110	150	0.6	98532	98582
	110	250	0.9	98534	98584
	110	500	1.5	98536	98586
	110	750	2.2	98538	98588
	110	1000	2.9	98540	98590
	110	1500	4.3	98542	98592
	110	2000	5.7	98544	98594
	110	2500	7.1	419278	419286
	110	3000	8.4	98546	98596
	110	4000	11.1	419462	419486
	110	5000	13.9	419470	419494
	110	6000	16.7	419478	419502

ACO pipe - straight pipe 125 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	125	150	0.7	419692	419712
	125	250	1.0	419694	419714
	125	500	1.7	419696	419716
	125	750	2.5	419698	419718
	125	1000	3.3	419700	419720
	125	1500	4.9	419702	419722
	125	2000	6.5	419704	419724
	125	2500	8.1	419708	419728
	125	3000	9.6	419706	419726
	125	6000	19.0	419710	419730

ACO pipe - straight pipe 160 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	160	150	1.1	98548	98598
	160	250	1.6	98600	98650
	160	500	2.9	98602	98652
	160	750	4.1	98604	98654
	160	1000	5.4	98606	98656
	160	1500	7.9	98608	98658
	160	2000	10.4	98610	98660
	160	2500	12.9	419280	419288
	160	3000	15.4	98612	98662
	160	4000	20.4	419464	419488
	160	5000	25.4	419472	419496
	160	6000	30.4	419480	419504

ACO pipe - straight pipe 200 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	200	500	4.5	419383	419384
	200	1000	8.3	419387	419388
	200	2000	15.8	419391	419392
	200	3000	23.2	419395	419396

ACO pipe - straight pipe 250 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	250	500	5.5	417071	417072
	250	1000	10.2	417075	417076
	250	2000	19.4	417079	417080
	250	3000	28.7	417083	417084

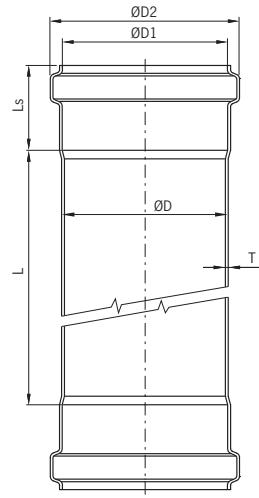
ACO pipe - straight pipe 315 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	315	500	9.8	417238	417200
	315	1000	17.7	417239	417201
	315	2000	33.5	417240	417202
	315	3000	49.3	417241	417203

Double socketed pipes

Product benefits

- Lengths from 0.15 meter up to 6 meter
- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully comply to EN 1124
- EPDM and Viton® seals available
- Fully pickled and passivated



Dimensions of socket and spigot

ØD [mm]	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	Socket length Ls [mm]	Wall thickness T [mm]
40	41	51.5	38	40	1.0
50	51	62.0	47	42	1.0
75	76	87.5	72	50	1.0
110	111	125.5	107	57	1.0
125	126	141.0	122	63	1.0
160	161	178.0	156	70	1.25
200	201	219.0	195	80	1.5
250	251	268.6	245	90	1.5
315	316.2	334.2	309	100	2.0

Order information

ACO pipe - double socketed pipe 40 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number			
				ØD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	40	250	0.2	417276	417290			
		500	0.6	417278	417292			
		750	0.9	417280	417294			
	40	1000	1.2	417282	417296			
	40	1500	1.8	417284	417298			
	40	2000	2.4	417286	417300			
	40	3000	3.6	417288	417302			

ACO pipe - double socketed pipe 50 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	50	250	0.4	419554	419594
	50	500	0.7	419556	419596
	50	750	1.1	419558	419598
	50	1000	1.4	419560	419600
	50	1500	2.0	419562	419602
	50	2000	2.6	419564	419604
	50	3000	3.9	419566	419606

ACO pipe - double socketed pipe 75 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	75	250	0.7	419568	419608
	75	500	1.2	419570	419610
	75	750	1.6	419572	419612
	75	1000	2.1	419574	419614
	75	1500	3.0	419576	419616
	75	2000	4.0	419578	419618
	75	3000	5.8	419580	419620

ACO pipe - double socketed pipe 110 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	110	500	1.7	419582	419622
	110	750	2.4	419584	419624
	110	1000	3.0	419586	419626
	110	1500	4.4	419588	419628
	110	2000	5.7	419590	419630
	110	3000	8.4	419592	419632

ACO pipe - double socketed pipe 125 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	125	500	1.7	419787	419799
	125	750	2.5	419789	419801
	125	1000	3.3	419791	419803
	125	1500	4.9	419793	419805
	125	2000	6.5	419795	419807
	125	3000	9.6	419797	419809

Straight pipes
Double socketed pipes

ACO pipe - double socketed pipe 160 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	160	500	3.3	419634	419646
	160	750	4.5	419636	419648
	160	1000	5.8	419638	419650
	160	1500	8.2	419640	419652
	160	2000	10.7	419642	419654
	160	3000	15.7	419644	419656

ACO pipe - double socketed pipe 200 mm

Seal material	Outlet diameter	Active length	Weight	Item number	Item number
	øD [mm]	L [mm]	[kg]	1.4301	1.4404
EPDM	200	500	5.0	419658	419659
	200	1000	8.6	419662	419663
	200	2000	15.9	419666	419667
	200	3000	23.1	419670	419671

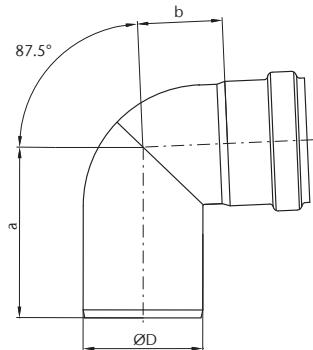
Bends

Product benefits

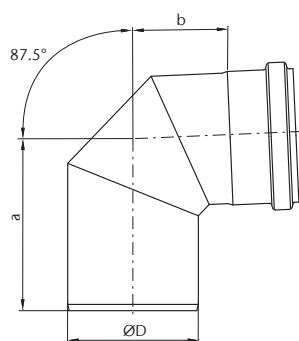
- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully chemically pickled and passivated
- EPDM and Viton® seals available
- Fully comply to EN 1124

ACO pipe - bend 87.5°

Shape valid for øD 40, 50, 75, 110 and 160



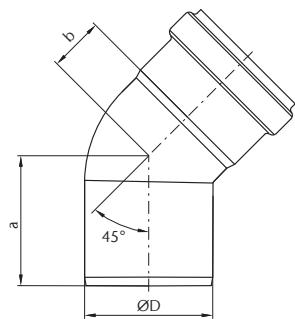
Shape valid for øD 125, 200, 250 and 315



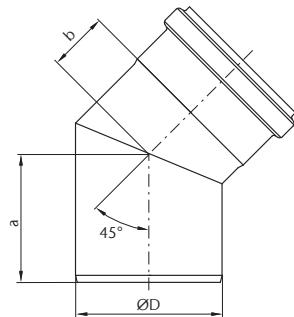
Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
		øD [mm]	a [mm]	b [mm]			
EPDM	40	79		32	0.2	417342	417350
	50	86		40	0.2	98700	98750
	75	107		53	0.4	98702	98752
	110	134		67	0.7	98704	98754
	125	161		93	0.8	419732	419734
	160	181		105	1.7	98706	98756
	200	215		129	3.9	419411	419413
	250	297		198	5.1	-	417088
	315	393		286	12.8	-	417204

ACO pipe - bend 45°

Shape valid for $\varnothing D$ 40, 50, 75, 110 and 160

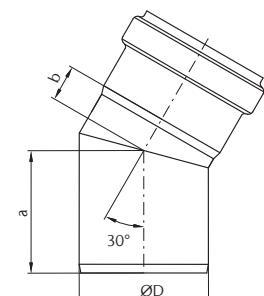


Shape valid for $\varnothing D$ 125, 200, 250 and 315



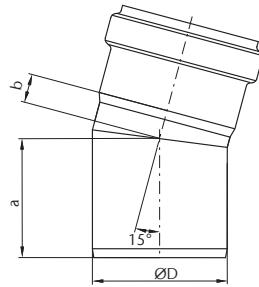
Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number	
	$\varnothing D$ [mm]	a [mm]	b [mm]	kg	1.4301	1.4404
EPDM	40	58	21	0.2	417344	417352
	50	62	24	0.2	98708	98758
	75	76	32	0.3	98710	98760
	110	93	42	0.5	98712	98762
	125	110	50	0.6	419736	419738
	160	131	55	1.3	98714	98764
	200	152	60	2.7	419407	419409
	250	177	76	4.1	-	417092
	315	199	91	7.2	-	417205

ACO pipe - bend 30°



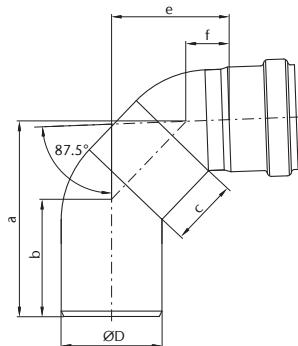
Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number	
	$\varnothing D$ [mm]	a [mm]	b [mm]	kg	1.4301	1.4404
EPDM	40	55	14	0.1	417346	417354
	50	57	16	0.2	98716	98766
	75	71	21	0.3	98718	98768
	110	85	27	0.5	98720	98770
	125	98	28	0.6	419740	419742
	160	110	40	1.2	98722	98772
	200	137	45	2.3	419403	419405
	250	153	58	2.9	-	417096
	315	172	68	5.8	-	417206

ACO pipe - bend 15°



Seal material	Outlet diameter	Dimensions			Weight kg	Item number	Item number
		øD [mm]	a [mm]	b [mm]			
EPDM	40	53		11	0.1	417348	417356
	50	54		12	0.1	98724	98774
	75	66		16	0.3	98726	98776
	110	78		15	0.4	98728	98778
	125	84		19	0.5	419744	419746
	160	99		29	1.0	98730	98780
	200	123		31	1.9	419399	419401
	250	136		40	2.5	-	417100
	315	151		46	5.4	-	417207

ACO pipe - long bend 87.5°



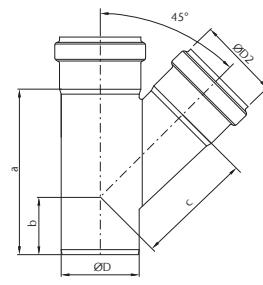
Seal material	Outlet diameter	Dimensions					Weight [kg]	Item number	Item number
		øD [mm]	a [mm]	b [mm]	c [mm]	e [mm]			
EPDM	40	105	64	50	67	40	0.2	417340	417338
	50	123	71	50	75	25	0.3	419146	419000
	75	146	87	50	88	32	0.5	419148	419002
	110	316	103	250	246	39	1.4	419150	419004
	160	360	126	250	270	92	2.2	419152	419144

Branches

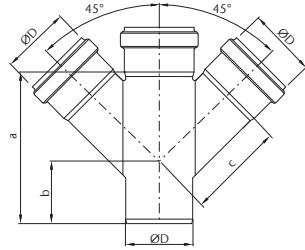
Product benefits

- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully comply to EN 1124
- EPDM and Viton® seals available
- Fully pickled and passivated

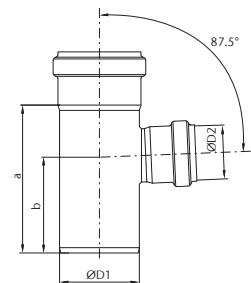
ACO pipe - single branch



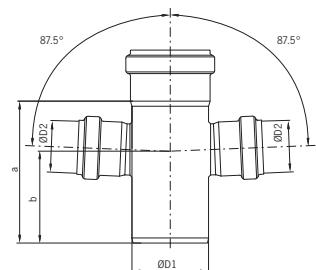
ACO pipe - double branch



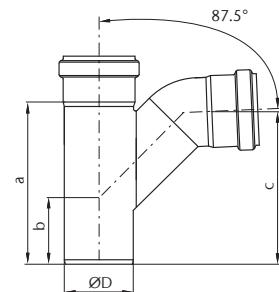
ACO pipe - single branch reduction



ACO pipe - double branch reduction

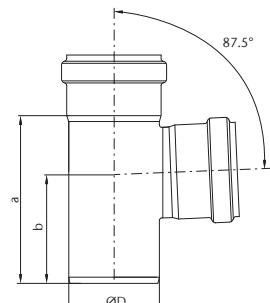


ACO pipe - swept single branch



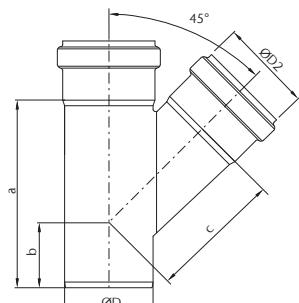
Single branches

ACO pipe - single branch 87.5°



Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number	
	øD [mm]	a [mm]	b [mm]	kg	1.4301	1.4404
EPDM	40	101	69	0.3	417362	417368
	50	106	71	0.3	98732	98782
	75	139	90	0.5	98734	98784
	110	183	117	0.8	98736	98786
	125	220	135	0.9	419748	419750
	160	288	184	2.3	98738	98788
	200	333	206	4.5	419419	419421
	250	363	215	5.5	-	417104
	315	476	281	14.8	-	417208

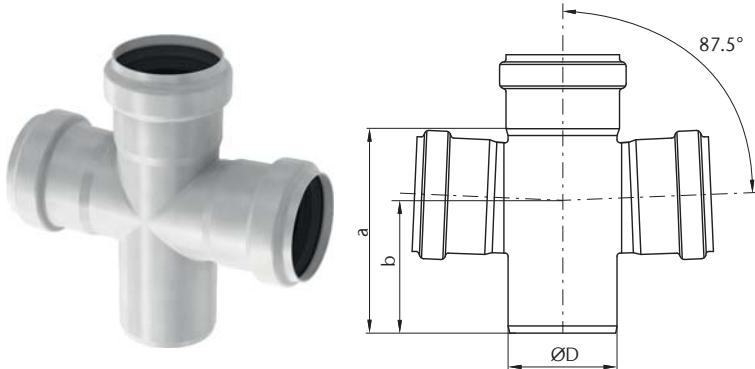
ACO pipe - single branch 45°



Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number		
	øD [mm]	a [mm]	b [mm]	c [mm]	[kg]	1.4301	1.4404
EPDM	40	118	58	63	0.3	417366	417372
	50	128	57	76	0.3	98748	98798
	75	179	74	110	0.5	98800	98850
	110	233	88	149	1.0	98802	98852
	125	273	103	170	1.1	419760	419762
	160	332	119	222	2.6	98804	98854
	200	415	151	274	5.7	419427	419429
	250	513	172	336	9.2	-	417108
	315	616	195	521	20.6	-	417209

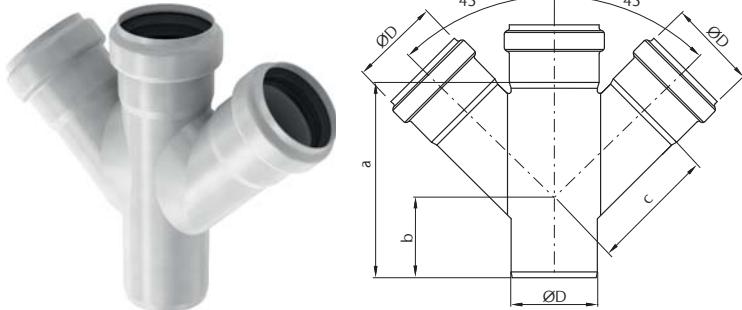
Double branches

ACO pipe - double branch 87.5°



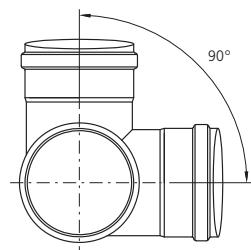
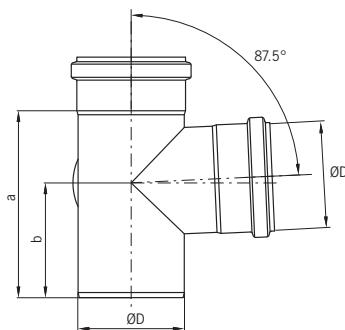
Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
		øD [mm]	a [mm]	b [mm]			
EPDM	40	101	69	0.3	0.3	417364	417370
	50	106	71	0.3	0.3	98740	98790
	75	139	90	0.6	0.6	98742	98792
	110	183	117	0.9	0.9	98744	98794
	160	288	184	2.7	2.7	98746	98796

ACO pipe - double branch 45°



Seal material	Outlet diameter	Dimensions				Weight	Item number	Item number
		øD [mm]	a [mm]	b [mm]	c [mm]			
EPDM	40	118	58	63	0.4	0.4	417374	417378
	50	128	57	76	0.4	0.4	98806	98856
	75	179	74	110	0.7	0.7	98808	98858
	110	233	88	149	1.2	1.2	98810	98860
	160	332	184	222	3.5	3.5	98812	98862
	250	509	172	336	11	11	-	417120
	315	616	195	521	29.7	29.7	-	417212

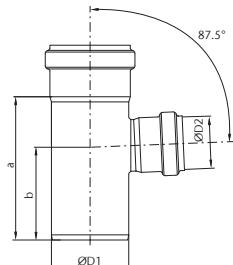
ACO pipe - double branch 87.5°



Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number
	ØD [mm]	a [mm]	b [mm]	kg	
EPDM	40	101	69	0.3	417414
	50	106	71	0.4	419162
	75	139	90	0.7	419164
	110	183	117	1.1	419166
	160	288	184	2.9	419168

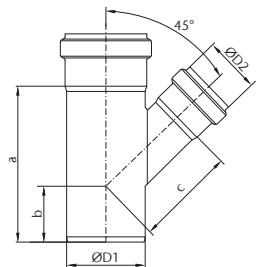
Single branch reductions

ACO pipe - single branch reduction 87.5°



Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
	øD1 [mm]	øD2 [mm]	a [mm]	b [mm]	[kg]	1.4301	1.4404
EPDM	50	40	106	98	0.3	417442	417443
	75	40	139	98	0.3	417444	417445
	75	50	139	90	0.3	98928	98930
	110	50	183	117	0.5	98932	98934
	110	75	183	117	0.8	98936	98938
	125	75	187	110	0.9	419752	419754
	125	110	205	127	0.9	419756	419758
	160	110	288	184	2.3	400691	400693
	200	160	293	186	3.7	419415	419417
	250	200	349	226	5.8	-	417112
	315	250	411	248	10.5	-	417210

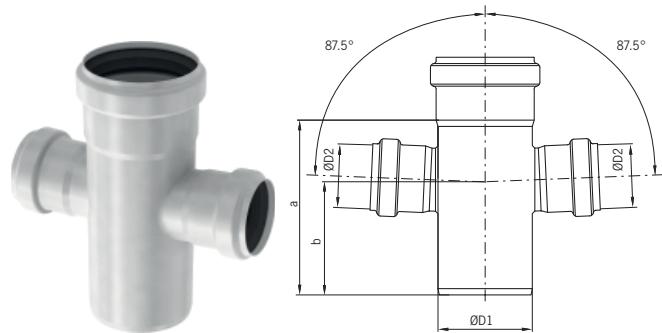
ACO pipe - single branch reduction 45°



Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number	
	øD1 [mm]	øD2 [mm]	a [mm]	b [mm]	c [mm]	[kg]	1.4301	1.4404
EPDM	50	40	119	55	71	0.3	417406	417408
	75	40	144	94	56	0.3	417446	417447
	75	50	144	56	94	0.3	400661	400663
	110	50	147	42	119	0.5	400665	400667
	110	75	182	60	135	1.0	400669	400671
	125	75	200	65	141	1.1	419764	419766
	125	110	250	90	160	1.1	419768	419770
	160	110	332	119	191	2.6	400699	400701
	200	160	359	123	250	4.7	419423	419425
	250	200	429	175	307	7.6	-	417116
	315	250	513	149	382	14.0	-	417211

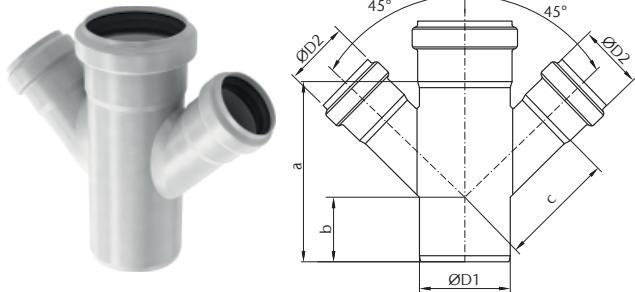
Double branch reductions

ACO pipe - double branch reduction 87.5°



Seal material	Outlet diameter		Dimensions		Weight	Item number	Item number
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]	[kg]	1.4301	1.4404
EPDM	50	40	106	71	0.25	417398	417399
	75	50	139	90	0.3	98940	98942
	110	50	183	117	0.6	98944	98946
	110	75	183	117	0.9	98900	98902
	160	110	288	184	2.7	400695	400697

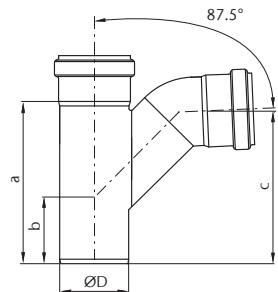
ACO pipe - double branch reduction 45°



Seal material	Outlet diameter		Dimensions			Weight	Item number	Item number
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]	c [mm]	[kg]	1.4301	1.4404
EPDM	50	40	119	55	71	0.3	417410	417412
	75	50	144	56	94	0.4	400673	400675
	110	50	147	42	119	0.7	400677	400679
	110	75	182	60	135	1.2	400681	400683
	160	110	332	119	190	3.5	400703	400705
	250	200	429	150	307	10.1	-	417124
	315	250	513	149	382	17.8	-	417213

Swept single branch

ACO pipe - swept single branch 87.5°



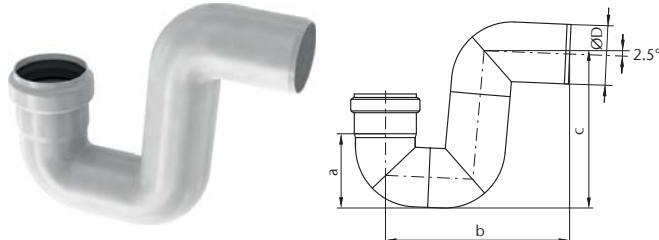
Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
	øD [mm]	a [mm]	b [mm]	c [mm]	[kg]	1.4301	1.4404
EPDM	40	115	55	105	0.3	417376	417380
	50	128	57	117	0.3	98814	98864
	75	179	74	157	0.6	98816	98866
	110	233	88	209	1.1	98818	98868
	160	332	184	302	2.8	98820	98870

Accessories

Product benefits

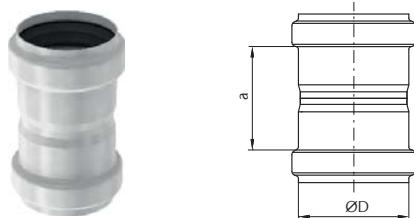
- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully comply to EN 1124
- EPDM and Viton® seals available
- Fully pickled and passivated

“P” trap



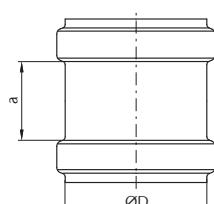
Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
	øD [mm]	a [mm]	b [mm]	c [mm]	[kg]	1.4301	1.4404
EPDM	50	68	187	149	0.5	98822	98872
	75	94	232	193	0.7	98824	98874
	110	132	300	254	1.3	98826	98876
	160	190	403	347	3.3	98828	98878

Straight coupling



Seal material	Outlet diameter	Dimensions			Weight	Item number	Item number
	øD [mm]	a [mm]		[kg]	1.4301	1.4404	
EPDM	40	51		0.1	417392	417394	
	50	54		0.1	98920	98970	
	75	75		0.2	98922	98972	
	110	84		0.4	98924	98974	
	125	140		0.4	419813	419815	
	160	110		0.8	98926	98976	
	200	136		1.8	419431	419433	
	250	181		3.1	-	417160	
	315	179		5.2	-	417225	

Repair coupling



Seal material	Outlet diameter	Dimensions	Weight	Item number	Item number
	$\varnothing D$ [mm]	a [mm]	[kg]	1.4301	1.4404
EPDM	40	57	0.1	417388	417390
	50	44	0.1	98830	98880
	75	46	0.2	98832	98882
	110	52	0.3	98834	98884
	125	70	0.3	419772	419774
	160	76	0.7	98836	98886
	200	100	1.5	419435	419437
	250	182	2.4	-	417139
	315	179	4.9	-	417220

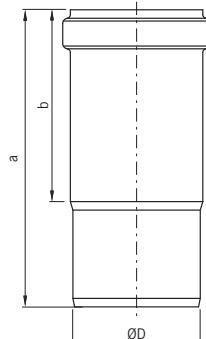
Note:

Repair couplings are used to aid a convenient repair to a damaged in-situ pipe. Unlike the standard straight coupling, there is no central registration to limit the insertion depth of the pipe. The repair coupling slides completely over a pipe joint and simply re-positioned to bridge the required pipe joint.

Installation tip:

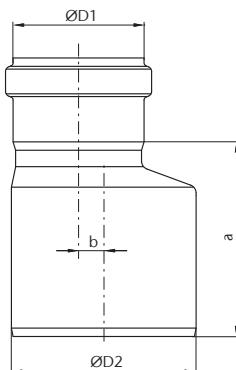
Mark the final position of the repair coupling on the installed pipe system to ensure the coupling seals are positioned symmetrically about the pipe joint.

Expansion socket



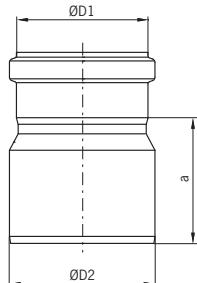
Seal material		Dimensions		Weight		Item number	
	$\varnothing D1$ [mm]	a [mm]	b [mm]	[kg]	1.4301	1.4404	
EPDM	40	150	90	0.2	417382	417384	
	50	159	102	0.2	98664	98666	
	75	175	113	0.3	98668	98670	
	110	200	121	0.5	98672	98674	
	125	250	165	0.6	419776	419778	
	160	292	170	1.4	98676	98678	
	250	400	190	3.8	-	417143	
	315	450	200	7.2	-	417221	
	200	180	350	2.4	417194	417196	

Eccentric increaser coupling



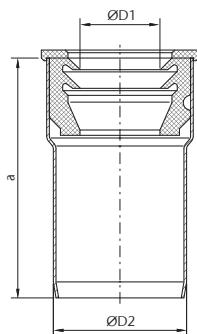
Seal material	Outlet diameter		Dimensions		Weight	Item number
	øD1 [mm]	øD2 [mm]	a [mm]	b [mm]	[kg]	
EPDM	40	50	85	5	0.3	417418
	40	75	85	17	0.3	417419
	50	75	75	7	0.3	98892
	50	110	110	25	0.4	98978
	75	110	110	15	0.5	98894
	110	160	160	22	1.1	98896
	200	250	180	15	2.4	417135
	250	315	190	15	4.4	417218

Concentric increaser coupling



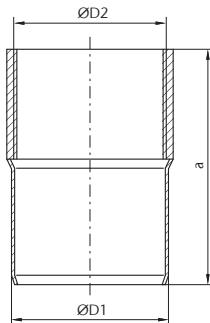
Seal material	Outlet diameter		Dimensions		Weight	Item number
	øD1 [mm]	øD2 [mm]	a [mm]	[kg]		
EPDM	40	50				417403
	40	75	85	0.3		417417
	50	75	88	0.3		419826
	50	110	113	1.4		417018
	75	110	105	0.6		419828
	110	125	107	0.6		419780
	110	160	126	0.9		419830
	125	160	160	1.2		419811
	160	200	200	1.8		419441
	200	250	180	2.4		417133
	315	250	190	4.4		417217

Increaser connector



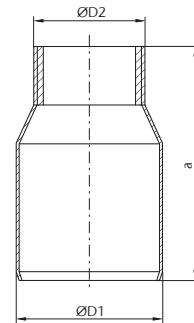
Seal material	Outlet diameter	Dimensions	Weight	Item number	
	øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
NBR	32	50	90	0.2	419373
	40	50	90	0.2	419374

Connector with internal screw thread and spigot



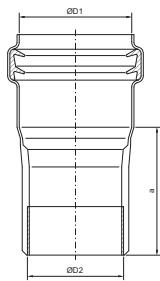
Outlet diameter	Dimensions	Weight	Item number	
øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
40	G 1¼"	70	0.2	417337
50	G 1¼"	72	0.2	98956
50	G 1½"	75	0.3	98957
50	G 2"	80	0.3	98958

Connector with external screw thread and spigot



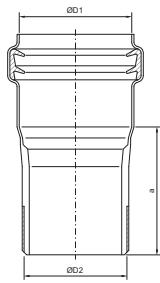
Outlet diameter	Dimensions	Weight	Item number	
øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
50	G 1¼"	100	0.2	419330
50	G 1½"	100	0.3	419331
50	G 2"	100	0.3	419332

Connector with socket and internal screw thread



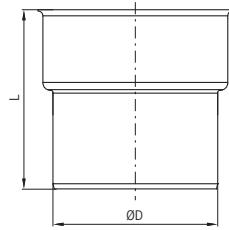
Seal material	Outlet diameter	Dimensions	Weight	Item number	
	øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
EPDM	40	G 1 1/4"	35	0.2	417336
	50	G 1 1/4"	58	0.2	419333
	50	G 1 1/2"	58	0.3	419335
	50	G 2"	58	0.3	419337

Connector with socket and external screw thread



Seal material	Outlet diameter	Dimensions	Weight	Item number	
	øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
EPDM	50	G 1 1/4"	58	0.2	419250
	50	G 1 1/2"	58	0.3	419252
	50	G 2"	58	0.3	419254

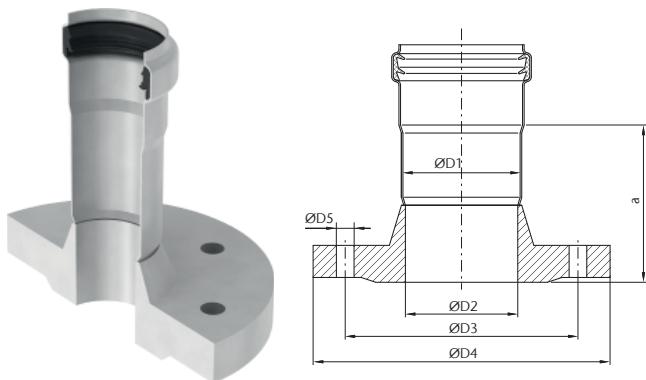
Connector cast iron spigot → ACO pipe socket



Outlet diameter	Dimensions	Weight	Item number
øD [mm]	L [mm]	[kg]	1.4404
75	121	0.4	98904
110	137	0.6	98906
160	174	1.0	98905

Note: To be used with reduction sealing item number 400580 for DN 75 and 400581 for DN 110

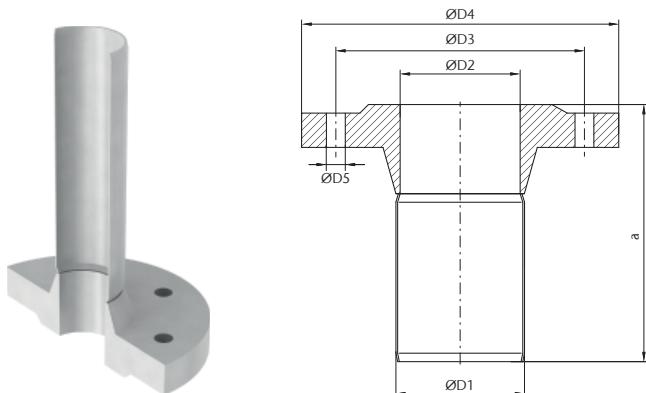
Connector with socket and flange



Seal material	Outlet diameter				n x ØD5	Dimensions	Weight	Item number
	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	ØD4 [mm]				
EPDM	40	DN 40	110	150	4 x 18	100	2.0	417420
	40	DN 40	110	150	4 x 18	100	2.0	417421
	50	DN 40	110	150	4 x 18	100	2.3	419256
	50	DN 50	125	165	4 x 18	100	2.7	419258
	75	DN 65	145	185	4 x 18	100	3.4	419260
	110	DN 100	180	220	8 x 18	100	4.9	419262
	200	DN 200	295	340	12 x 22	102	12.0	419514

Note: n – number of holes for screws in the flange. Flange PN 16 DIN 2633. | Flange PN 6 and PN 10 available on request.

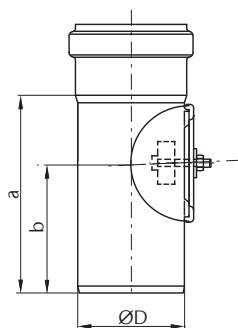
Connector with flange and spigot



ØD1 [mm]	Outlet diameter				n x ØD5	Dimensions	Weight	Item number
	ØD2 [mm]	ØD3 [mm]	ØD4 [mm]	[mm]				
40	DN 40	100	130	4 x 18	161	1.6	417430	
40	DN 50	100	130	4 x 18	161	1.6	417431	
40	DN 40	110	150	4 x 18	165	2.0	417422	
40	DN 50	110	150	4 x 18	165	2.0	417423	
50	DN 40	110	150	4 x 18	192	2.3	419264	
50	DN 50	125	165	4 x 18	192	2.7	419265	
75	DN 65	145	185	4 x 18	245	3.4	419266	
110	DN 100	180	220	8 x 18	259	4.9	419267	
160	DN 150	240	285	8 x 22	200	8.5	419540	
200	DN 200	295	240	12 x 22	240	12.3	419541	

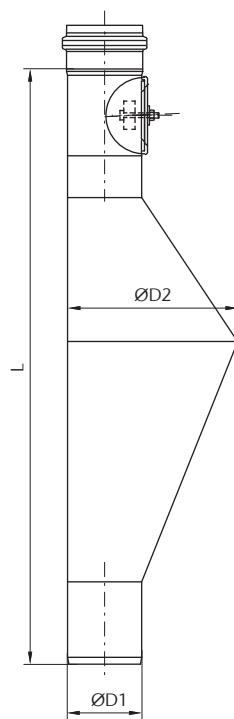
Note: n – number of holes for screws in the flange. Flange PN 16 DIN 2633. | Flange PN 6 and PN 10 available on request.

Access unit



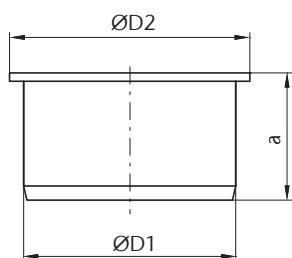
Seal material	Outlet diameter	Dimensions		Weight kg	Item number 1.4301	Item number 1.4404
		øD [mm]	a [mm]			
EPDM	75	139	90	0.5	98913	98963
	110	183	117	0.8	98915	98965
	125	210	135	0.9	419783	419785
	160	288	184	2.3	98917	98967
	200	293	186	3.7	419676	419678
	250	290	184	3.8	-	417128
	315	340	228	8.9	-	417214

Rat-stop



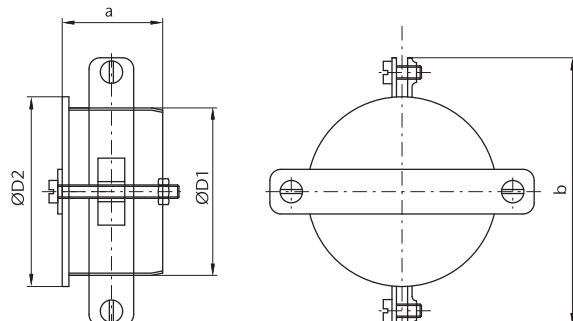
Seal material	Outlet diameter	Dimensions		Weight [kg]	Item number 1.4301	Item number 1.4404
		øD1 [mm]	øD2 [mm]			
EPDM	110	250	864	3.8	419268	419270

Socket plug



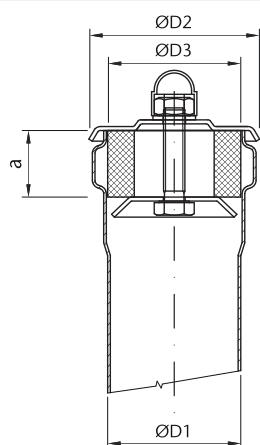
Outlet diameter		Dimensions		Item number
øD1 [mm]	øD2 [mm]	a [mm]	[kg]	1.4404
40	35	50	0.1	417405
50	58	45	0.1	98888
75	85	45	0.3	98889
110	120	45	0.5	98890
125	135	50	0.6	419782
160	170	50	0.5	98891
200	210	50	0.7	98994
250	260	83	1.0	417131
315	325	73	2.2	417215

Socket plug with clamp



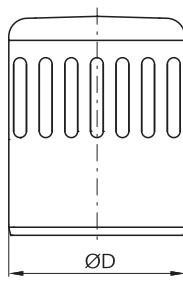
Outlet diameter		Dimensions		Weight	Item number
øD1 [mm]	øD2 [mm]	a [mm]	b [mm]	[kg]	1.4404
40					417402
50	58	45	88	0.4	419138
75	85	45	120	0.6	419139
110	120	45	167	0.8	419140
160	170	50	214	1.1	419141
200	210	83	302	1.3	417132
250	260	130	371	3.7	417216
315	325				

Drainplugs with screwed plug



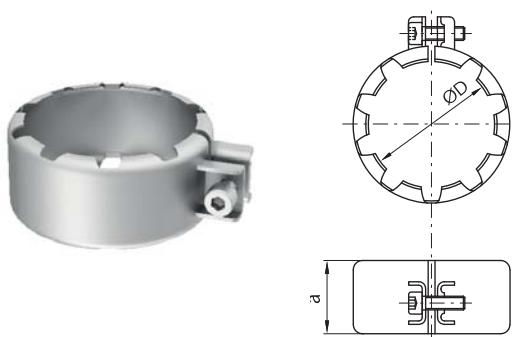
Outlet diameter		Dimensions		Weight	Item number	Item number
$\varnothing D1$ [mm]	$\varnothing D2$ [mm]	$\varnothing D3$ [mm]	a [mm]	[kg]	1.4301	1.4404
40				0.1	417404	-
50	64	50	25	0.1	419942	419948
75	92	75	25	0.5	419943	419949
110	126	105	15	0.5	419944	419950
125	160	124	12	0.9	419945	419951
160	186	166	20	1.2	419946	419952

Vent cowl



Outlet diameter	Weight	Item number
$\varnothing D$ [mm]	[kg]	1.4404
110	0.4	98962

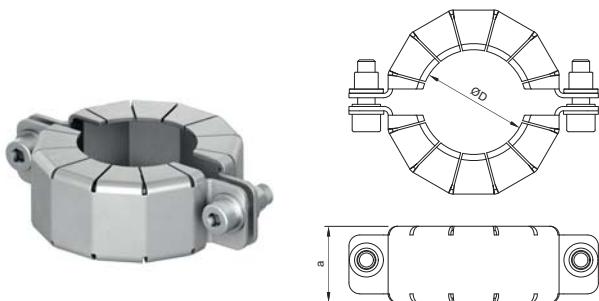
Socket clamp



Outlet diameter	Dimensions	Weight	Item number
$\varnothing D$ [mm]	a [mm]	[kg]	
50	40	0.11	417067
75	43	0.16	417069
110	43	0.25	417227

Note: See page 224 for maximum operating pressures

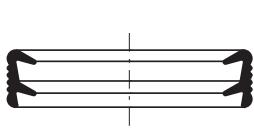
Socket clamp - two parts



Outlet diameter	Dimensions	Weight	Item number	Item number
$\varnothing D$ [mm]	a [mm]	[kg]	1.4301	1.4404
40	36	0.10	417396	417397
50	40	0.14	417024	417025
75	40	0.25	417026	417027
110	43	0.34	417028	417029
125	45	0.38	417016	417017
160	45	0.48	417030	417031
200	45	0.51	–	419983
250	45	0.71	–	417137
315	48	0.9	417219	–

Note: See page 224 for maximum operating pressures

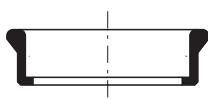
Seal



Outlet diameter	Weight	Item number	Item number	Item number
øD [mm]	[kg]	EPDM	NBR	Viton®
40	0.01	417400	417401	417538
50	0.01	98400	417037	98404
75	0.02	98401	417038	98405
110	0.05	98402	417039	98406
125	0.06	419453	417041	419454
160	0.08	98403	417040	98407
200	0.10	98433	417042	98437
250	0.12	417146	417148	417147
315	0.30	417222	417223	–

Note: Detailed technical data sheet on page 259

Reduction sealing cast iron spigot → ACO pipe socket



Outlet diameter	Weight	Item number
øD [mm]	[kg]	EPDM
DN 70/75	0.06	400580
DN 100/110	0.10	400581
DN 150/160	0.14	400582

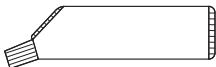
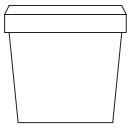
Note: While purchasing AP reduction sealing cast iron spigot @ ACO pipe, it is necessary to order AP cast iron connector.

Reduction sealing ACO pipe spigot → cast iron socket

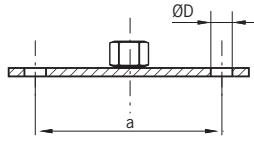


Outlet diameter	Weight	Item number
øD [mm]	[kg]	EPDM
DN 70/75	0.05	400586
DN 100/110	0.08	400587
DN 150/160	0.12	400588

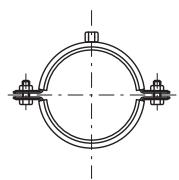
ACO Universal lubricant

	Weight [kg]	Item number
	0.15	E80350000
	1.00	E80350001

Fixing plate

	Outlet diameter	Dimensions	Weight	Item number	Item number
	øD [mm]	a [mm]	[kg]	Galvanised steel	1.4404
	8.4	70	0.05	400525	400521

Support bracket with rubber infill

	Outlet diameter	Weight	Material	Nut size	Item number
	øD [mm]	[kg]			
	40	0.12	Galvanised steel	M8	417434
		1.4404		M8	417359
	50	0.14	Galvanised steel	M8	400533
		1.4404		M8	400529
	75	0.23	Galvanised steel	M8/M10	400534
		1.4404		M8	400530
	110	0.33	Galvanised steel	M8/M10	400535
		1.4404		M8	400531
	125	0.36	Galvanised steel	M8/M10	419854
		1.4404		M8	419855
	160	0.39	Galvanised steel	M8/M10	400536
		1.4404		M8	400532
	200	0.44	Galvanised steel	M8/M10	419451
		1.4404		M8	419675
	250	0.60	Galvanised steel	–	–
		1.4404		M8	417149
	315	1.0	Galvanised steel	–	–
		1.4404		M12	417224

Support bracket with rubber infill and stirrup

Outlet diameter	Dimensions		Weight [kg]	Item number Galvanised steel	Item number 1.4404
	$\varnothing D$ [mm]	a [mm]			
40				417358	417360
50	56	0.18		400541	400537
75	80	0.28		400542	400538
110	116	0.41		400543	400539
160	166	0.48		400544	400540

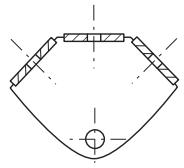
Support bracket with rubber infill and key

Outlet diameter	Dimensions		Weight [kg]	Item number Galvanised steel	Item number 1.4404
	$\varnothing D$ [mm]	a [mm]			
40				–	417361
50	120	0.16		400549	400545
75	133	0.26		400550	400546
110	150	0.38		400551	400547
160	175	0.44		400552	400548

Threaded support pole M8

$\varnothing D$ [mm]	L [mm]	Weight [kg]	Item number	
			Galvanised steel	1.4404
M8	1000	0.39	400557	400553
M8	90	0.03	400558	400554
M8	40	0.016	400559	400555

Set for axial fixing

	Weight [kg]	Item number	
		Galvanised steel	1.4404
	0.11	400565	400561

Joiner/disjoiner

	øD [mm]	Weight [kg]	Item number
	100 - 400	25	417070

Electric cutter 50 – 110 mm

	Note	Weight [kg]	Item number
	in plastic case	20	400745

Note: Convenient tool for pipe cutting, suitable for larger projects

Manual cutter set 50-110 mm

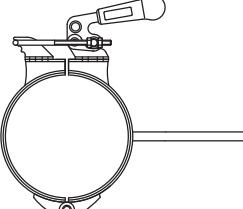
	Note	Weight [kg]	Item number
	in plastic case	3.50	419363

Manual cutter set

	øD [mm]	Weight [kg]	Item number
	50-110	1.0	419364
	110-160	2.0	400738
	160-250	2.0	417228

Note: ACO pipe manual cutter should be ordered together with a holder for manual cutting.

Holder for manual cutting

	øD [mm]	Weight [kg]	Item number
	125	3.5	419857
	160	4.0	400742
	200	4.5	400743

Note: ACO pipe holder for manual cutting should be ordered together with ACO pipe manual cutter.

Replacement discs for manual cutters

	Note	Weight [kg]	Item number
	for cutter 419363	0.005	419365
	for cutters 400738 and 419364	0.005	400578

Note: Minimum order quantity – 10 pcs.

Full bore flow rate tables for varying gradients

For rainwater/storm drainage applications

- Flow rates based on Colebrook-White formula.
- Roughness coefficient $k_s = 0.6 \text{ mm}$

Gradient [%]	Pipe ø 40 mm		Pipe ø 50 mm		Pipe ø 75 mm		Pipe ø 110 mm		Pipe ø 125 mm	
	Flow rate Q [l/s]	Velocity v [m/s]								
10.0	1.44	1.28	2.74	1.52	8.40	2.01	23.81	2.60	33.61	2.83
7.5	1.25	1.11	2.38	1.31	7.28	1.74	20.62	2.25	29.11	2.45
5.0	1.01	0.90	1.94	1.07	5.94	1.42	16.83	1.84	23.77	2.00
4.5	0.96	0.86	1.84	1.02	5.64	1.35	15.97	1.74	22.55	1.90
4.0	0.90	0.81	1.73	0.96	5.31	1.27	15.06	1.64	21.26	1.79
3.5	0.84	0.75	1.62	0.90	4.97	1.19	14.08	1.54	19.88	1.67
3.0	0.78	0.70	1.50	0.83	4.60	1.10	13.04	1.42	18.41	1.55
2.5	0.71	0.64	1.37	0.76	4.20	1.00	11.90	1.30	16.80	1.41
2.0	0.63	0.57	1.23	0.68	3.76	0.90	10.64	1.16	15.03	1.26
1.5	0.55	0.49	1.06	0.59	3.25	0.78	9.22	1.01	13.01	1.10
1.0	0.44	0.40	0.87	0.48	2.66	0.63	7.53	0.82	10.63	0.89

Gradient [%]	Pipe ø 160 mm		Pipe ø 200 mm		Pipe ø 250 mm		Pipe ø 315 mm	
	Flow rate Q [l/s]	Velocity v [m/s]						
10.0	64.15	3.31	116.89	3.83	218.31	4.45	401.51	5.15
7.5	55.56	2.87	101.22	3.32	188.95	3.85	347.54	4.46
5.0	45.36	2.34	82.65	2.71	154.13	3.14	283.52	3.64
4.5	43.03	2.22	78.40	2.57	146.17	2.98	268.90	3.45
4.0	40.57	2.10	73.92	2.43	137.77	2.81	253.45	3.25
3.5	37.95	1.96	69.14	2.27	128.82	2.63	236.99	3.04
3.0	35.13	1.81	64.01	2.10	119.20	2.43	219.31	2.82
2.5	32.07	1.66	58.43	1.92	108.74	2.22	200.09	2.57
2.0	28.68	1.48	52.26	1.71	97.18	1.98	178.83	2.30
1.5	24.84	1.28	45.26	1.48	84.05	1.71	154.70	1.99
1.0	20.28	1.05	36.95	1.21	68.48	1.40	126.07	1.62

Note:

The flow rates shown above assume an unrestricted discharge from the pipe. For installations without an unrestricted discharge, the flow rate will be affected by the downstream throttle.

For shallow gradients, the Colebrook-White formula underestimates flow rates (because when gradient tends towards zero %, velocity also tends to zero).

For level or nearly level installations (slope < 1 %), spatially varied flow tables should be used.

For soil/foul water drainage applications

- Flow rates based on Colebrook-White formula.
- Roughness coefficient $k_s = 0.6 \text{ mm}$

Gradient [%]	Pipe ø 40 mm		Pipe ø 50 mm		Pipe ø 75 mm		Pipe ø 110 mm		Pipe ø 125 mm	
	Flow rate Q [l/s]	Velocity v [m/s]								
10.0	1.21	1.08	2.30	1.27	7.14	1.71	20.45	2.23	28.97	2.44
7.5	1.04	0.93	1.99	1.10	6.19	1.48	17.71	1.93	25.09	2.11
5.0	0.85	0.76	1.63	0.90	5.05	1.21	14.46	1.58	20.49	1.72
4.5	0.81	0.72	1.54	0.85	4.79	1.14	13.72	1.50	19.43	1.64
4.0	0.76	0.68	1.46	0.80	4.52	1.08	12.94	1.41	18.32	1.54
3.5	0.71	0.64	1.36	0.75	4.23	1.01	12.10	1.32	17.14	1.44
3.0	0.66	0.59	1.26	0.70	3.91	0.93	11.20	1.22	15.87	1.34
2.5	0.60	0.54	1.15	0.64	3.57	0.85	10.23	1.12	14.49	1.22
2.0	0.53	0.48	1.03	0.57	3.19	0.76	9.15	1.00	12.96	1.09
1.5	0.46	0.42	0.89	0.49	2.77	0.66	7.92	0.86	11.22	0.94
1.0	0.37	0.34	0.73	0.40	2.26	0.54	6.47	0.71	9.16	0.77

Gradient [%]	Pipe ø 160 mm		Pipe ø 200 mm		Pipe ø 250 mm		Pipe ø 315 mm	
	Flow rate Q [l/s]	Velocity v [m/s]						
10.0	55.61	2.87	101.81	3.34	206.87	4.22	382.95	4.92
7.5	48.16	2.49	88.17	2.89	177.84	3.62	329.47	4.23
5.0	39.32	2.03	71.99	2.36	143.52	2.93	266.21	3.42
4.5	37.30	1.93	68.30	2.24	135.71	2.77	251.81	3.23
4.0	35.17	1.82	64.39	2.11	127.46	2.60	236.59	3.04
3.5	32.90	1.70	60.23	1.98	118.69	2.42	220.42	2.83
3.0	30.46	1.57	55.76	1.83	109.29	2.23	203.07	2.61
2.5	27.80	1.44	50.90	1.67	99.10	2.02	184.25	2.37
2.0	24.87	1.28	45.53	1.49	87.86	1.79	163.50	2.10
1.5	21.53	1.11	39.43	1.29	75.18	1.53	140.05	1.80
1.0	17.58	0.91	32.19	1.06	60.25	1.23	112.42	1.44

Note:

The flow rates shown above assume an unrestricted discharge from the pipe. For installations without an unrestricted discharge, the flow rate will be affected by the downstream throttle.

For shallow gradients, the Colebrook-White formula underestimates flow rates (because when gradient tends towards zero %, velocity also tends to zero).

For level or nearly level installations (slope < 1 %), spatially varied flow tables should be used.

Operating pressures

The ACO pipe socketed stainless steel pipe systems are fitted with an unique, double lip seal manufactured from either EPDM or Viton®.

The double lip seal arrangement provides added security for the ultimate long term reliability. The ACO pipe; socketed stainless steel pipe systems are tested and approved for operating pressures in gravity, siphonic and vacuum systems.

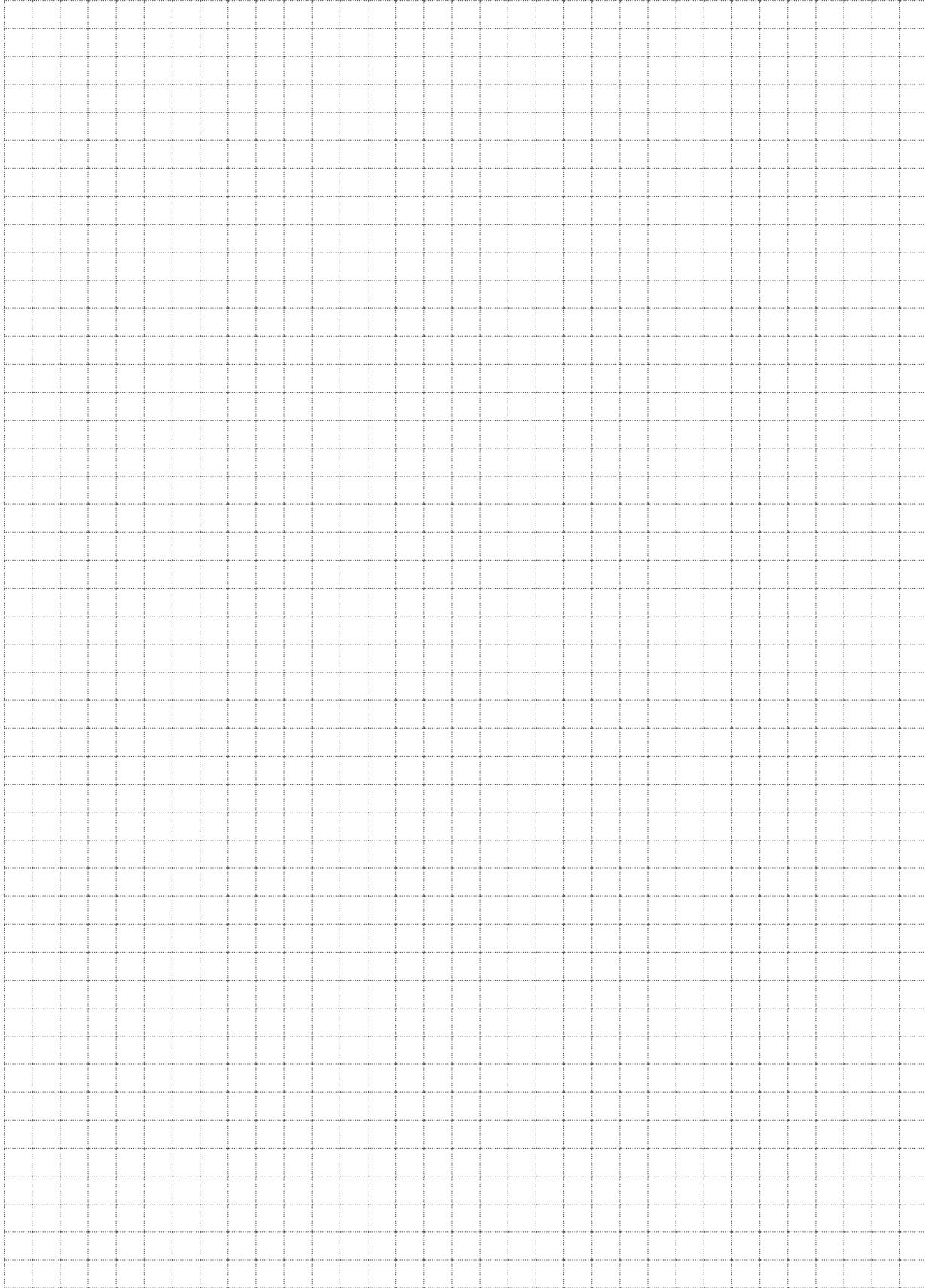
ACO pipe stainless steel pipe systems are designed for maximum working pressure 0.5 bar according to EN 1124. In case where higher pressure may apply, it is necessary to combine the system with socket clamps.

Pipe diameter [mm]	Operating pressure	
	■ Without socket clamp	■ With socket clamp
40	0.5	2.5
50	0.5	2.5
75	0.5	2.5
110	0.5	2.5
125	0.5	2.5
160	0.5	1.5
200	0.5	1.5
250	0.5	1.0
315	0.5	0.7

Vacuum applications

Pipe diameter [mm]	Operating pressure [bar]
40	-0.8
50	-0.8
75	-0.8
110	-0.8
125	-0.8
160	-0.8
200	-0.8
250	-0.8
315	-0.8

Notes:





5

ACO Industrial Drainage Support

COLLECT:
Collect and remove



ACO Industrial Drainage Support

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Online
information



Transport & handling information

ACO gully

- ACO gullies are packed on framed pallets, protected by cardboard inserts and PE foil. Individual products are packed in protective plastic net.
- Outlet pipes are equipped with protective lids.
- Gully tops and flanges are covered with protective blisters, which also protect the inside areas during installation. Individual products are packed in plastic protective net.
- Handle the gully/ gully parts with care. Any rough manipulation (like dragging along the ground, dumping off the truck...) can cause deformation and potentially cause product malfunctions.
- Contact with carbon steel may cause stainless steel corrosion.

ACO channel

- The maximum transportable length of channel is 6 000 mm. In case of container or air transport, the recommended maximum transport length is 2 000 mm. Long channels over 6 000 mm are standardly divided in 6 m sections with transport joins.
- If one piece channel is required, the channel will have to be welded on site. Please contact our Sales/Technical department.
- ACO channel is for such requirement packed on framed/ non framed pallets fixed by plastic tape.
- Products are protected by wooden inserts and frames, in some cases PE foil or bubble foil is used.
- Articles are either wrapped separately in ACO paper box or placed loose within EUR pallet space. It is strongly recommended that channels / channel parts / accessories are transported in their original packaging to avoid damage and / or loss of parts.
- Store preferably on dry and flat surface.
- Handle the channels/ channel parts/ accessories with care. Careful truck un/loading procedures are crucial. Any rough manipulation (like dragging along the ground, dumping off the truck etc...) can cause deformation and potentially cause product malfunctions.
- Contact with carbon steel may cause stainless steel corrosion.

ACO grating

- Standard grating length for ACO hygienic box channel is 500 mm and 1 000 mm for ACO modular box channel.
- ACO grating is packed on framed pallets protected by cardboard inserts and PE foil.
- Articles are either wrapped separately in ACO paper box or placed loose within EUR pallet space.
- It is strongly recommended to transport gratings in their original packaging to avoid damage. Store preferably on dry and flat surface.
- Handle the gratings with care.
- Any rough manipulation (like dragging along the ground, dumping off the truck...) can cause deformation and potentially cause product malfunctions.
- Contact with carbon steel may cause stainless steel corrosion.

ACO pipe

- Maximum transport length of straight pipes pallets is 6 080 mm and width 820 mm.
- Straight pipes are packed on framed/ non framed long pallets, protected by wooden inserts and supports.
- Articles are either wrapped in cardboard and stretch or PE foil. Fittings are packed in cardboard boxes and stacked on foiled EUR pallets.
- It is strongly recommended to transport and store the pipes and fittings in their original packaging to avoid damage and/or the loss of parts. Store preferably on dry and flat surface.
- Handle the pipes and fittings with care. Any rough handling (like dragging along the ground, dumping off the truck...) can cause deformation and potentially cause product malfunctions.
- Contact with carbon steel may cause stainless steel corrosion.

ACO gullies and ACO channels Introduction

ACO has developed a solution which prevents the spreading of fire and high temperatures within different building's floors where ACO hygienic gully, ACO hygienic channel and ACO pipe are installed.

The solution has been tested according to EN 1366-2 Fire resistance tests for service installations and classified according to EN 13501 Fire classifications of construction products and building elements. For classification details please see chart below.

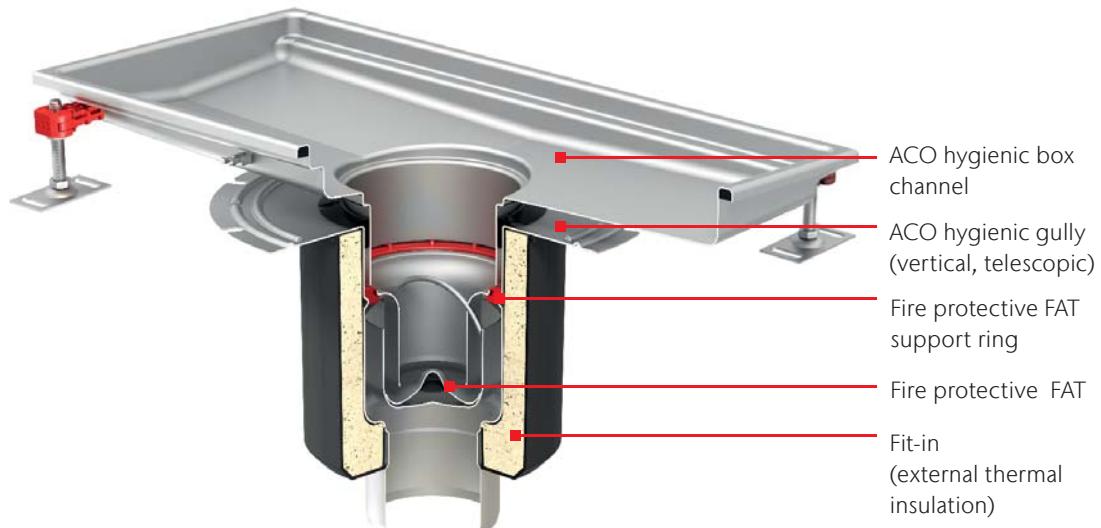
ACO fire protective kit can be used with telescopic vertical or fixed height vertical ACO hygienic gully and with ACO hygienic box channel, consisting of following items:

- External protection – Fit in
- Internal protection
 - Fire protective foul air trap
 - Fire protective foul air trap support

This solution has been designed and tested for use in either concrete or aerated concrete ceiling slabs with a minimum height of 150 mm.

ACO hygienic gully and ACO hygienic box channel installed with ACO fire protective kit can be connected to any kind of sewerage with ACO pipe regardless of its material, e.g. non combustible cast iron drain pipes SML, stainless steel ACO pipe (building material class A1) or plastic drain pipes (building material class B1/B2). All mentioned components of external and internal protection must be used to guarantee correct function of fire protection!

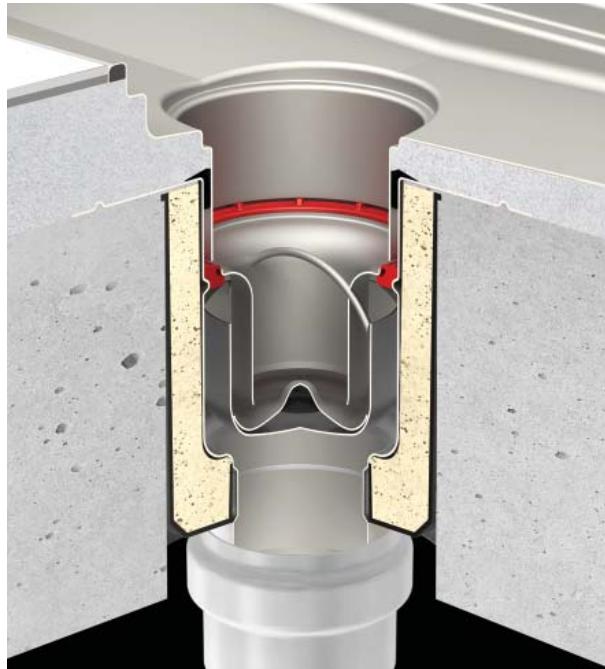
Tested at: PAVUS, a.s. protocol:
No. Pr-13-2.061



Gully type	Outlet diameter	Classification
■ ACO hygienic gully 142	75	EI 180
	110	EI 120
■ ACO hygienic gully 157	75	EI 180
	110	EI 120
■ ACO hygienic gully 218	110	EI 180
	160	EI 90

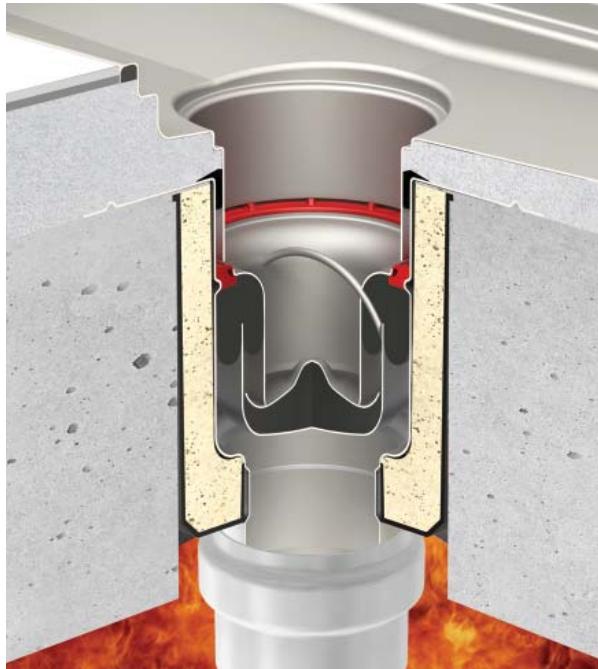
Classification according to EN 13 501, protocol: PK2-11-13-901-C-0

ACO gullies and ACO channels Installation and function



Before activation

- Installation scheme with assembled fire protective solution in ceiling construction.



Fire activation

- Function of fire protective solution to prevent the spread of fire within storey structure by transmission (ACO gully).
- Time preventing the spread of fire is limited from 90 minutes to 180 minutes.

ACO pipe Installation and function

ACO pipe push-fit system is classified and certified as a non-combustible product (as it is manufactured in compliance to EN 1124, part 1 & part 2). This standard classifies the ACO pipe systems as class A1 fire resistant (highest rating).

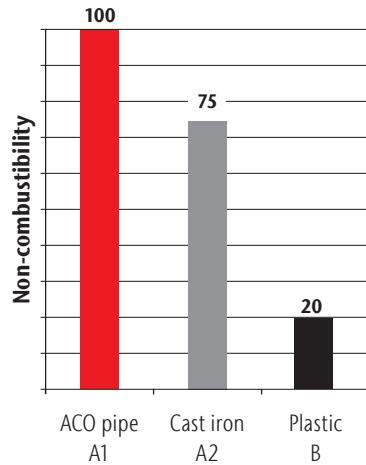
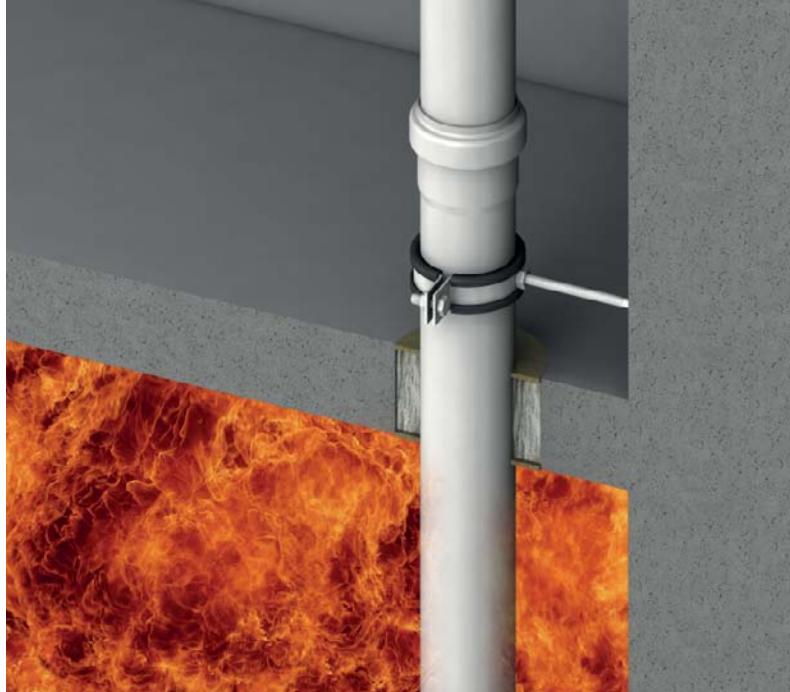
ACO pipe systems are certified also by SITAC authority as fire resistant (cert. no. 0410-01).

Special certificate of fire resistance for coated pipes (no. CSI PK-13-083) is available.

Fire certificates from marine authorities are available.

Non combustibility:

- Non combustible
- No additional fire collars needed at installation
- No toxic fumes emitted in case of fire
- EN 1124



Notes:

5

Introduction

Drainage is a critical component affecting the hygienic performance of commercial food preparation business. Effective drainage helps to mitigate hazards from the external environment and is central to the safe and hygienic operation internally. Within the food production facility, surface liquids represent potential hazard of microbiological contamination.

Liquids may be part of the cleaning process, or may originate from specific equipment discharge points, or be simply the result of an accidental spillage. Quite often the liquids contains other components – organic matter being predominant. Floor drainage components cater for these situations through three core functions - interception, conveyance of fluids, and ability to act as a barrier.

Effective cleaning of drainage in commercial food preparation business reduces risk of contamination and spoiling of food during preparation, processing, and storage. The main objective of cleaning is to remove soil to obtain clean surface and thereby reduce number of microorganisms. A further reduction of microorganism can be obtained by disinfection step.

Principles of cleaning

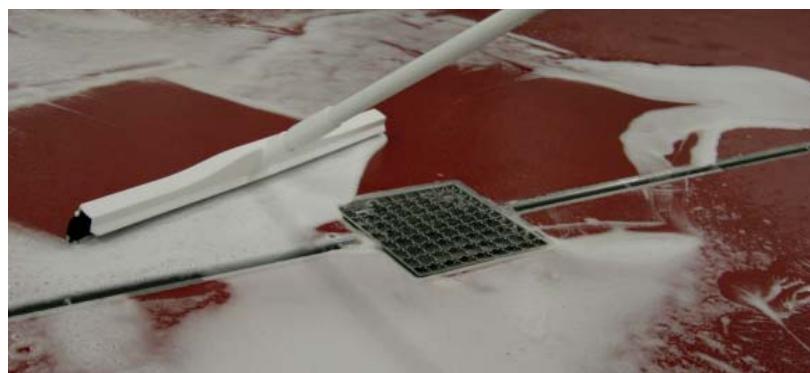
The principles of cleaning involve combination of thermal, kinetic and chemical energy. The cleaning processes are always combination of these factors and time of these to work. The key point to highlight is that all equipment – including

drainage – in food processing plant should have hygienic design, which is easy to clean and disinfect. Otherwise the cleaning process is time and energy consuming and not cost effective.

All surfaces of ACO stainless steel drainage are hygienically designed – no sharp corners, edges, dead spaces and crevices. ACO drainage is easily accessible for cleaning and visual inspection.

The effectiveness of drainage cleaning depends on number of factors:

- Soil type and properties
- Material, design and surfaces
- Water quality
- Cleaning chemicals
- Cleaning procedure
- Cleaning parameters; like temperature, time, flow velocity and concentration of chemicals



There are two different types of surface to be cleaned:

■ Product contact surface

All equipment that intentionally or unintentionally (e.g. due to splashing) comes to contact with final product or from which product or condensate may drain, drop or be drawn into the main product or product container.

■ Non product contact surface

All other exposed surfaces, including surfaces associated with equipment, such as support structures, control panels and external surfaces. It also includes surfaces related to the manufacturing environment, such as floors, walls and drain channels.

We also differentiate cleaning process as whether it is applied dry or wet.

■ Dry cleaning

Dry cleaning is essentially a mechanical removal of soils using sweeping, brushing, wiping and vacuuming. Environments typically to be cleaned by dry methods include plants which are producing flour, cocoa, dry milk products, dry soups and dry infant formulas.

■ Wet cleaning

Wet cleaning involves application of fluids (usually water based) to achieve the desired cleaning result. This can be applied to Open Plant Cleaning (OPC): surfaces to be cleaned have to be accessible to fluids. In addition, some components may be physically removed from production area and cleaned separately – Cleaning out of place (COP). Drainage systems require wet cleaning.

The last is a distinction between whether the cleaning process is done manually or automatically.

■ Manual cleaning

Manual cleaning is generally considered as labour intensive and, therefore often expensive. The manual tools should be hygienic – resistant to applied chemicals and suitable for a specific operation. On top of it; operators should be properly trained to be able to perform cleaning as expected to achieve clean surfaces. ACO drainage has all elements of hygienic design that makes cleaning of ACO drainage much easier and faster when compared to competitive products.

■ Automatic cleaning

Utensils and dismantled parts of equipment are cleaned and disinfected automatically in industrial washing machines, tray or tunnel washers (automatic COP). CIP is also defined as automatic cleaning system.

Cleaning chemicals

There are three main classes of cleaning compounds:

- detergents
- alkalies
- acids
- disinfectants/sanitizers

Detergents

This broad group of chemicals is widely used in households and in food industries brings different type of soil from surfaces into cleaning foams and emulsions that could be easily rinsed off.

Alkalies

Alkaline compounds are effective for dissolution of proteins and removal of fats. Example of alkalies are sodium hydroxide (caustic soda) and potassium hydroxide. These compounds are hazzardeous to personnel and mostly used in CIP – automatic dosing system is recommended.

Acids

Acids, both organic and inorganic, are commonly used for removal of mineral deposits, such as: hard water scale or milkstone. Acids are potentially corrosive to construction materials and must be used with care.

When chemical cleaning is performed, it is neccesseray to use low-pressure sprays, foam or gel. Foam and gel are more viscous than sprayed agents and preferred as they are not prone to aerosol formation. Selection of the correct detergent for given application should be always done in co-operation with the detergent supplier.

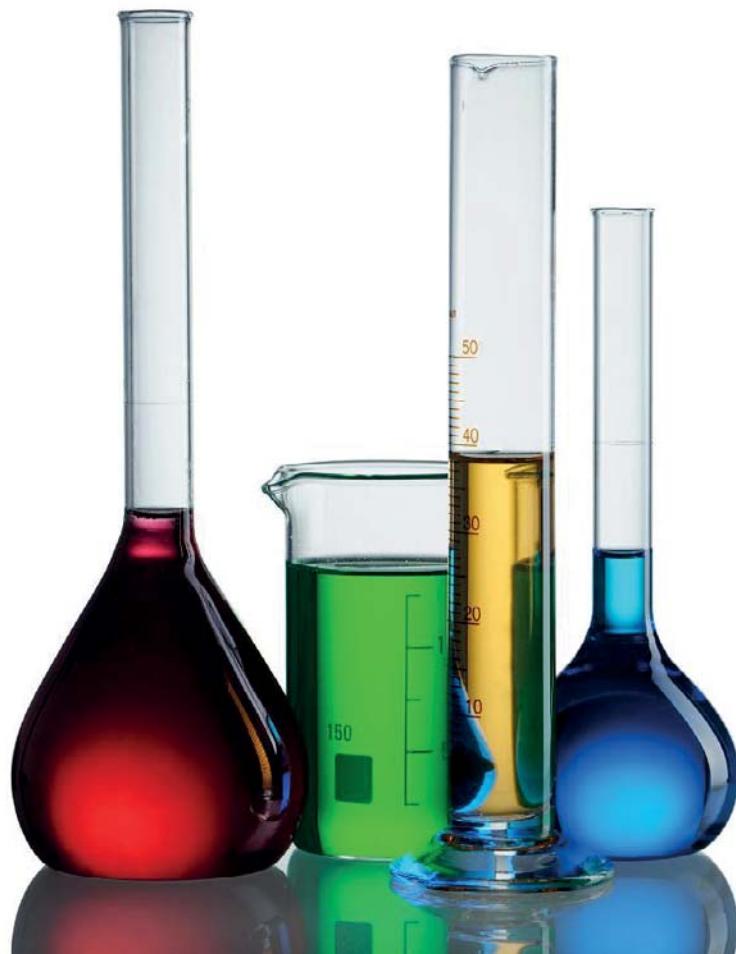
Disinfectants/sanitizers

In case of high risk area's or production areas with microbiological sensitive products, the floors and drain systems should be sprayed with disinfectants/sanitizers, which will reduce the contamination risk even more. The disinfectants/sanitizers will kill remaining micro-organisms, according to the required specifications.

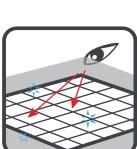
The plant downtime and labour associated with cleaning is major cost of any food processing operation.

Sources of soil

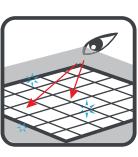
Primary source of soil is from processed food product itself. Microbiological biofilms mainly contribute to the soil build ups on drainage surfaces. These films vary in their solubility depending upon such factors as heat effect, age, dryness, time, etc. It is essential that personel involved in the cleaning process design have understanding of the nature of the soil to be removed before selecting a detergent and cleaning method. The rule of thumb is that acid cleaners dissolve alkaline soils (minerals), and detergents dissolve acid soils and food wastes (proteins).



Manual cleaning of drainage

- 1**  Remove all present grocery, raw materials, wrapping materials and tools.
- 2**  Cover all equipment that could be contaminated.
- 3**  Remove excess dirt from floor and gratings, and place into designated container.
- 4**  Remove gratings.
- 5**  Remove and empty silt basket and foul air trap.
- 6**  Place collected waste and dirt into designated container. Rinse grating, silt basket and foul air trap with clean water. Then place foul air trap into its original position.
- 7**  Wash all surfaces with designated detergent and designated hand brush.
- 8**  Rinse all surfaces with clean water.
- 9**  Visually check surface cleanliness - repeat cleaning process if necessary.
- 10**  Place silt basket and grating to its original position.
- 11**  Rinse the entire equipment with clean water.

Chemical cleaning of drainage

- 1**  Remove all present grocery, raw materials, wrapping materials and tools.
- 2**  Cover all equipment that could be contaminated.
- 3**  Remove excess dirt from floor and gratings; and place into designated container.
- 4**  Remove gratings.
- 5**  Remove and empty silt basket and foul air trap.
- 6**  Place collected waste and dirt into designated container. Rinse grating, silt basket and foul air trap with clean water. Then place foul air trap into its original position.
- 7**  Apply foam to all surfaces.
- 8**  Leave foam for 15 minutes.
- 9**  Rinse off foam with clean water.
- 10**  Visually check surface cleanliness - repeat cleaning process if necessary.
- 11**  Place silt basket and grating to its original position.
- 12**  Rinse the entire equipment with clean water.

Overview with recommended cleaning procedures for drainage

These instructions are for guidance only. **Always follow manufacturer's instructions.**
All procedures have to be verified and adjusted to the application specifics.

Frequency	Daily	Weekly
Procedure	Removal of organic deposits (fats, proteins, saccharides and polysaccharides)	Removal of inorganic deposits that could promote very resistent biofilms
Note: Removal of rinse water residues	<ul style="list-style-type: none">■ Steam■ Medium pressure water to max 25 bar■ Mechanical / kinetic energy (brushes, CIP medium velocity)	Mechanical abrasive methods – polishing
Physical agents	Note: Removal of excess water with a squeegee	<ul style="list-style-type: none">■ Caustics (sodium hydroxide, potassium hydroxide)■ Detergents / surfactants
Chemical agents	<ul style="list-style-type: none">■ Nitric acid for stainless steel passivation where chlorine attack could be expected■ Inorganic acids (phosphoric acid)■ Weak organic acids	
Note: Alcohols (isopropylalcohol, ethanol)		
Examples of chemical cleaning agents suitable for ACO stainless steel drainage	Standard chemical agents used for floor cleaning should be sufficient (should be validated) Oxofoam, Endorochlor (Diversey)	<ul style="list-style-type: none">■ Acifoam (Diversey)■ Acigel (Diversey)■ Super Dilac (Diversey)
Note: Chlorine tablets (Suma Tab D4 by Diversey) are often added to the water in foul trap in microbial sensitive production area's		

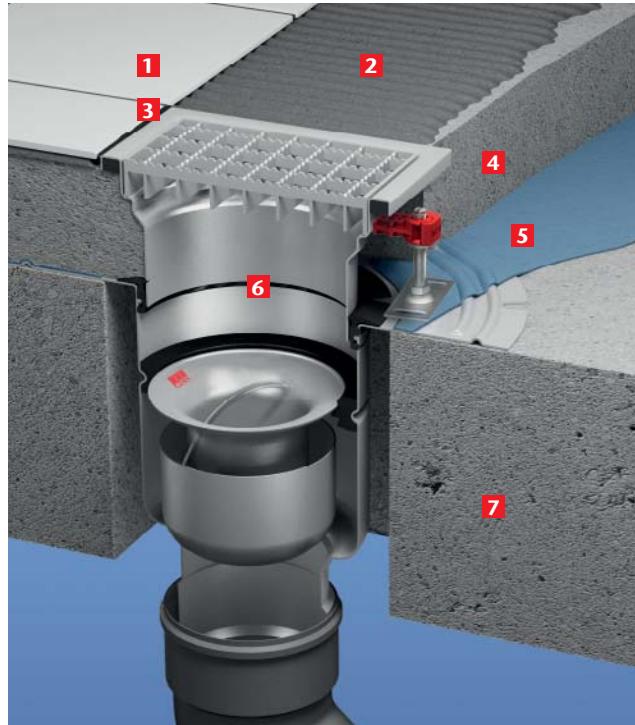
Any cleaning procedures, including those recommended by equipment suppliers, must be properly validated at the equipment, where it will be applied and on the soil that could be expected even after certain time of usage.

Always follow manufacturer's instructions to avoid damage to the equipment.

ACO hygienic gully

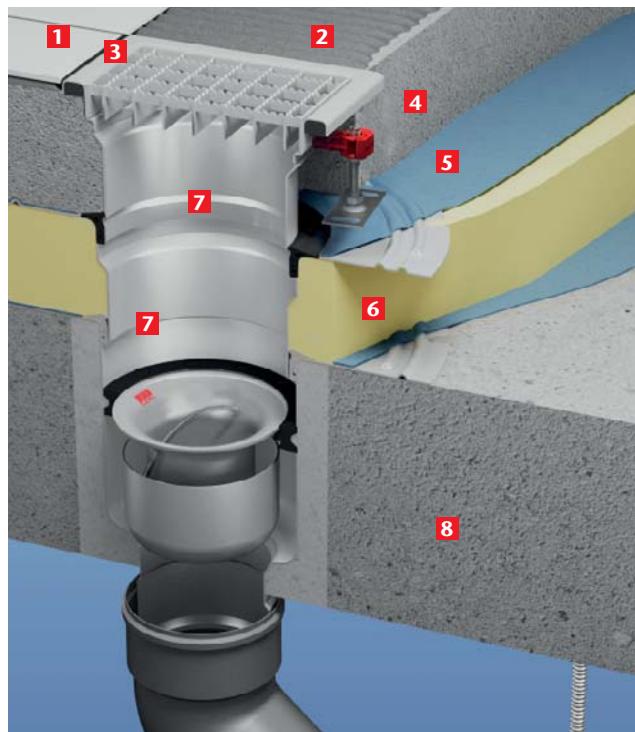
ACO hygienic gully – telescopic flanged gully installed in suspended concrete slab construction

- 1 Ceramic tiles
- 2 Tile cement
- 3 Mastic sealant
- 4 Floor screed
- 5 Water proof membrane (WPM)
- 6 Gully
- 7 Suspended concrete slab core-boared to accept gully body



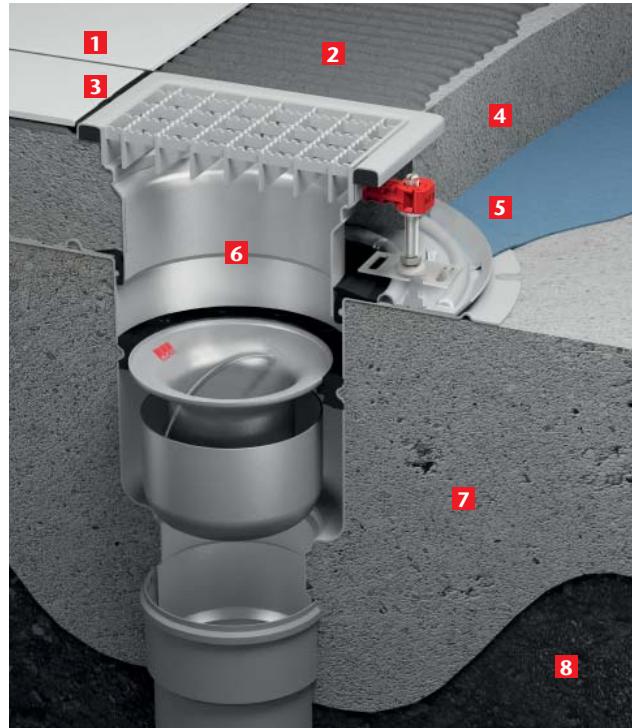
ACO hygienic gully – telescopic flanged gully and raising flanged piece installed in suspended concrete slab construction

- 1 Ceramic tiles
- 2 Tile cement
- 3 Mastic sealant
- 4 Floor screed
- 5 Water proof membrane (WPM)
- 6 Insulation
- 7 Double flange gully
- 8 Suspended concrete slab core-boared to accept gully body



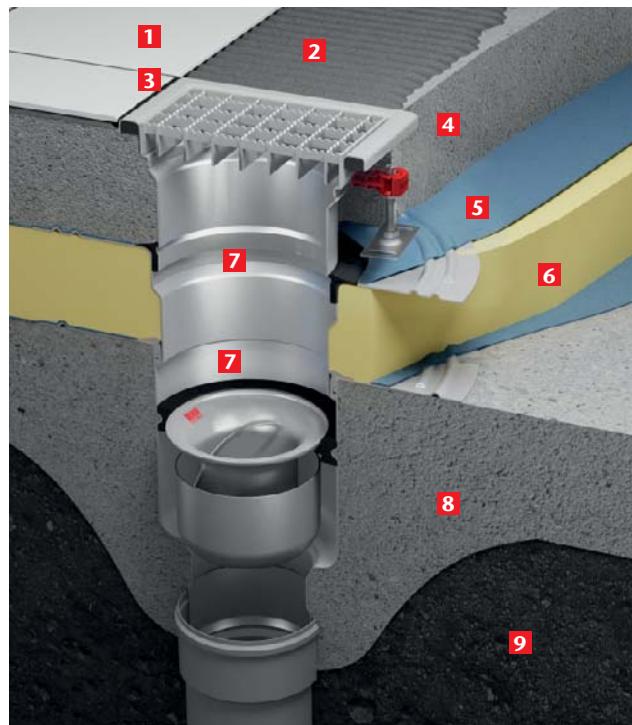
ACO hygienic gully – telescopic flanged gully installed in solid concrete floor

- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Floor screed
- 5** Water proof membrane (WPM)
- 6** Flange gully
- 7** Solid concrete floor slab
- 8** Compacted soil



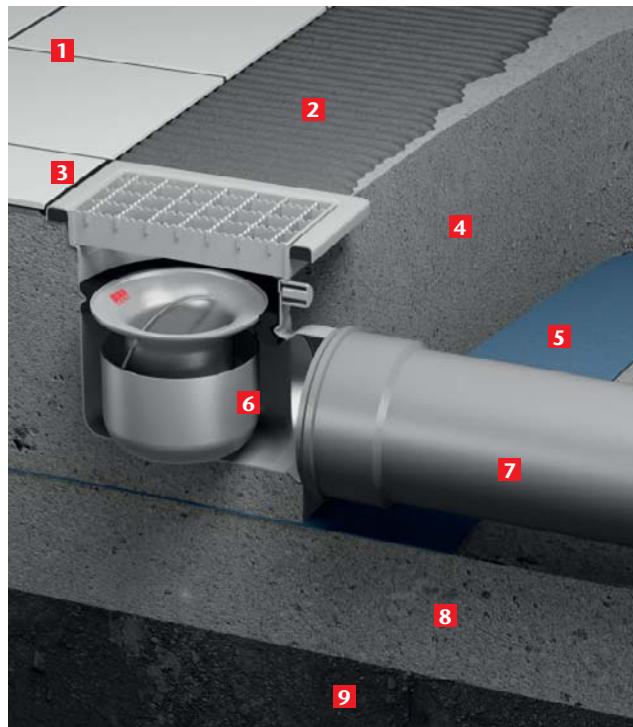
ACO hygienic gully – telescopic flanged gully and raising piece installed in solid concrete floor

- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Floor screed
- 5** Water proof membrane (WPM)
- 6** Insulation
- 7** Double flange gully
- 8** Solid concrete floor slab
- 9** Compacted soil



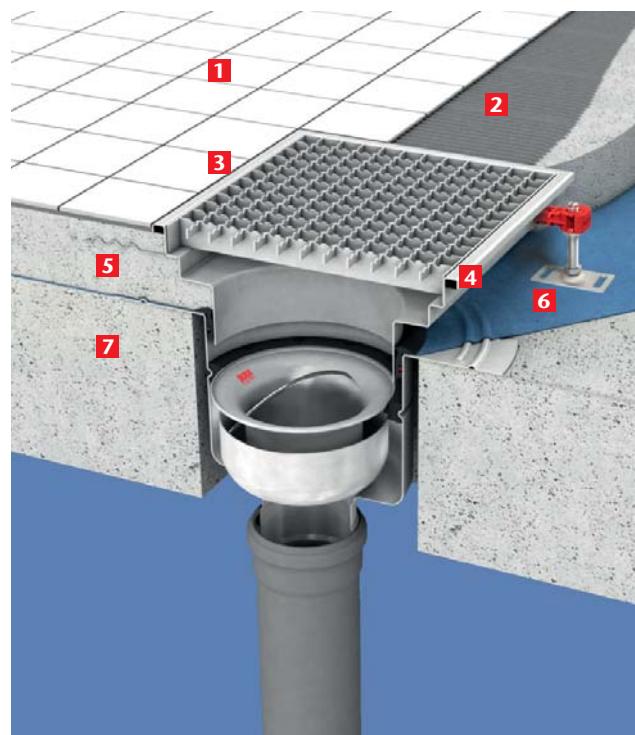
ACO hygienic gully – fixed height gully installed in solid concrete floor

- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Floor screed
- 5** Dampf proof membrane (DPM)
- 6** Gully
- 7** Outlet pipe
- 8** Floor slab
- 9** Compacted soil

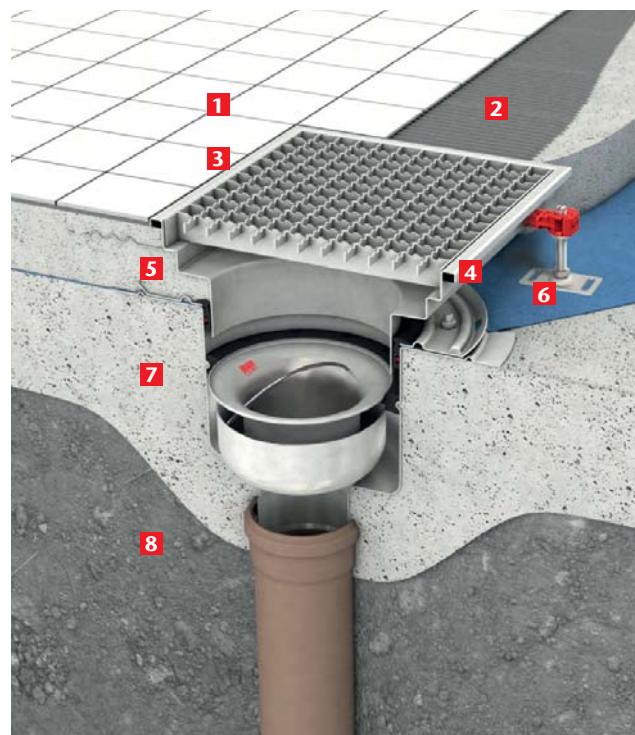


ACO hygienic box channel

ACO hygienic box channel standard type – ACO hygienic gully with adhesive bonding flange (Tiled floor)

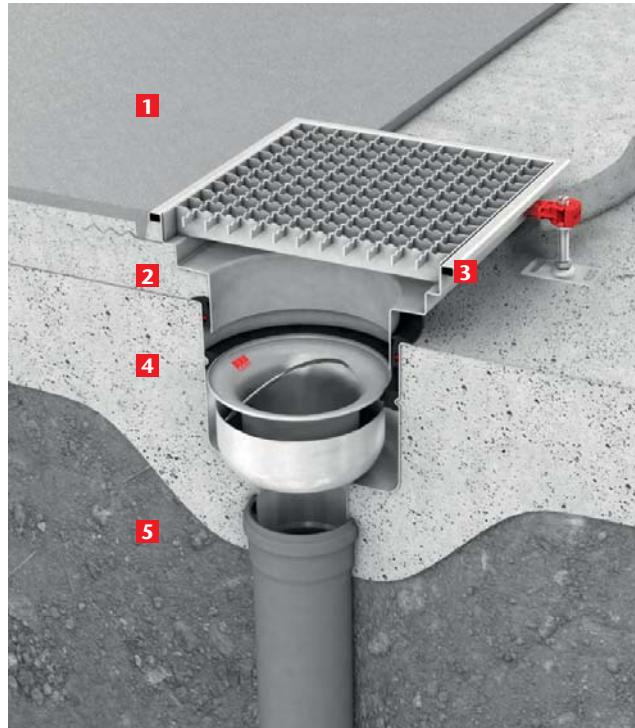


ACO hygienic box channel standard type – ACO hygienic gully with mechanical clamping flange (Tiled floor)



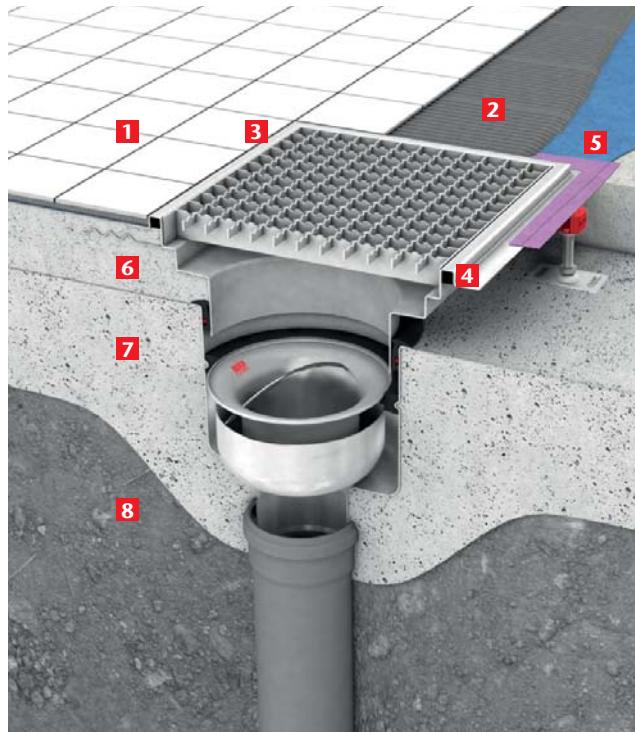
ACO hygienic box channel standard type – ACO hygienic gully with location flange (Resin floor)

- 1** Epoxy/resin floor
- 2** Floor screed
- 3** Rubber infill
- 4** Solid concrete floor slab
- 5** Compacted soil



ACO hygienic box channel extendend type – ACO hygienic gully with location flange (Tiled floor)

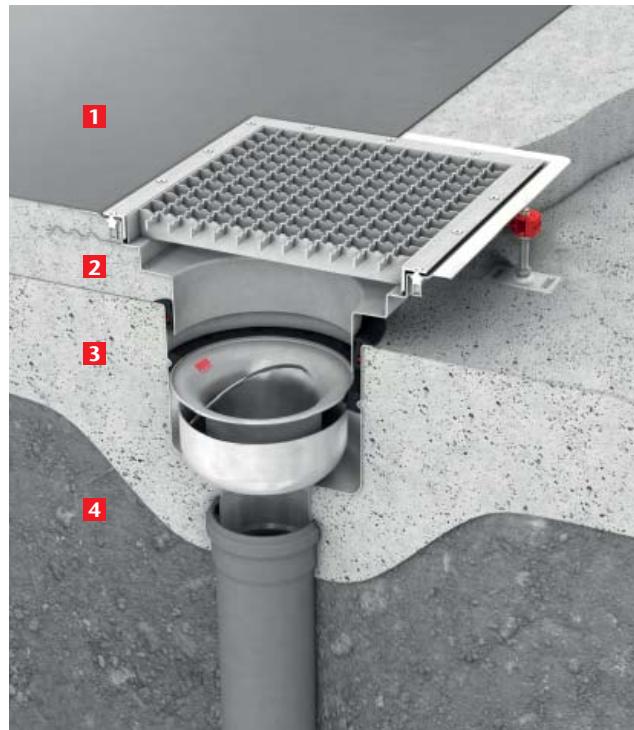
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Water proof membrane
- 6** Floor screed
- 7** Solid concrete floor slab
- 8** Compacted soil



ACO vinyl box channel

ACO vinyl box channel – ACO hygienic gully with location flange (Vinyl floor)

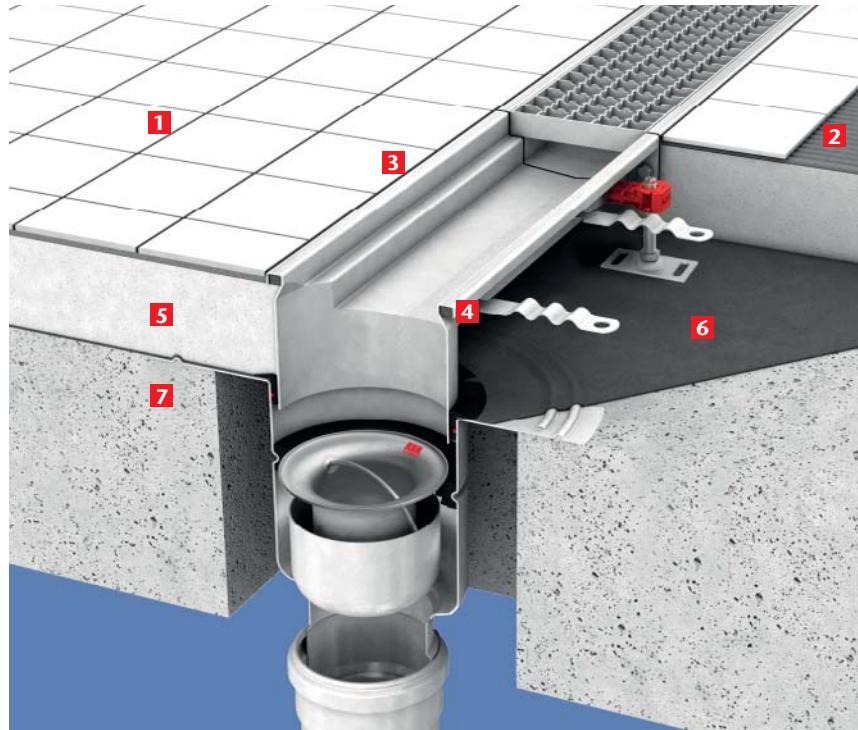
- 1 Vinyl floor
- 2 Floor screed
- 3 Solid concrete floor slab
- 4 Compacted soil



ACO modular box channel

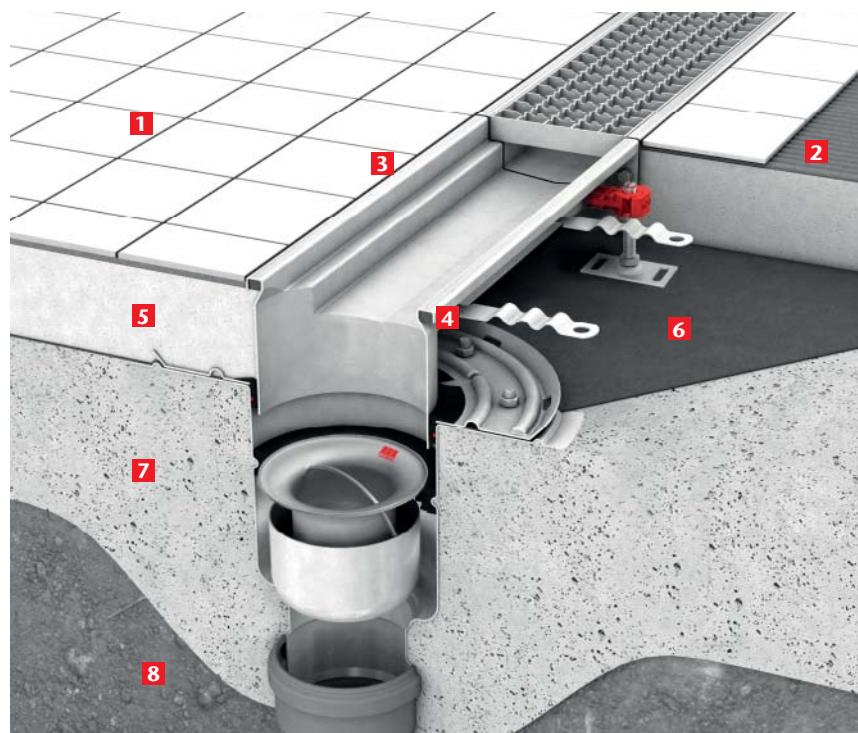
**ACO modular box channel standard type – ACO hygienic gully with adhesive bonding flange
(Tiled floor)**

- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Floor screed
- 6** Water proof membrane
- 7** Solid concrete floor slab

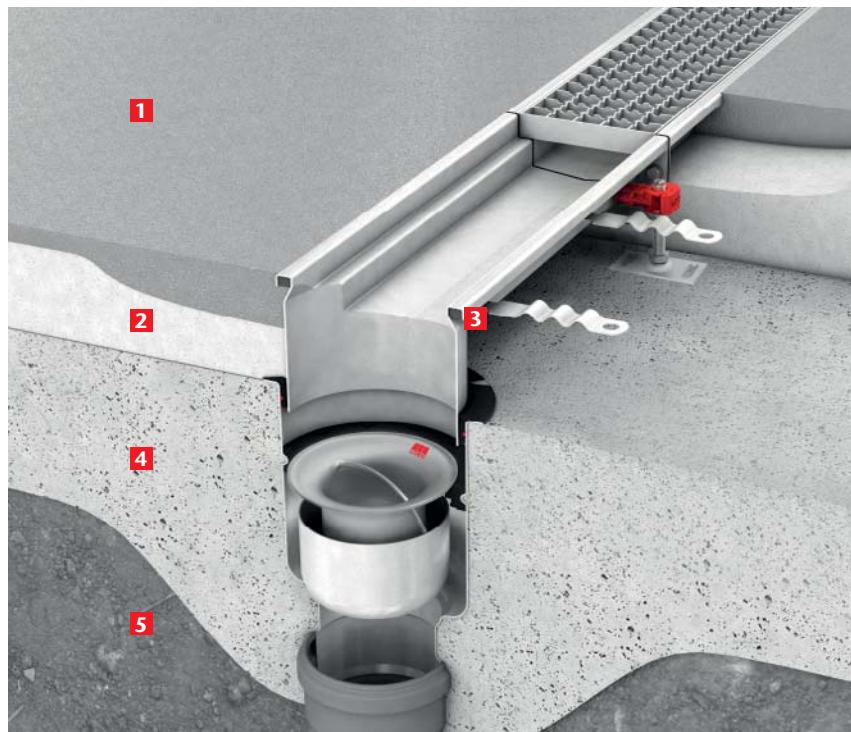


**ACO modular box channel standard type – ACO hygienic gully with mechanical clamping flange
(Tiled floor)**

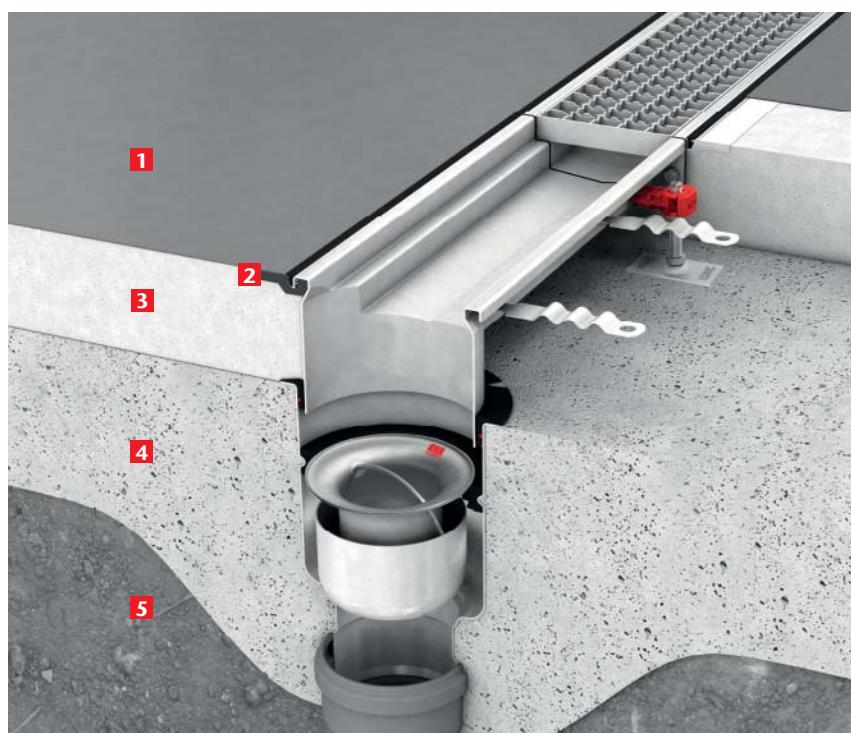
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Floor screed
- 6** Water proof membrane
- 7** Solid concrete floor slab
- 8** Compacted soil



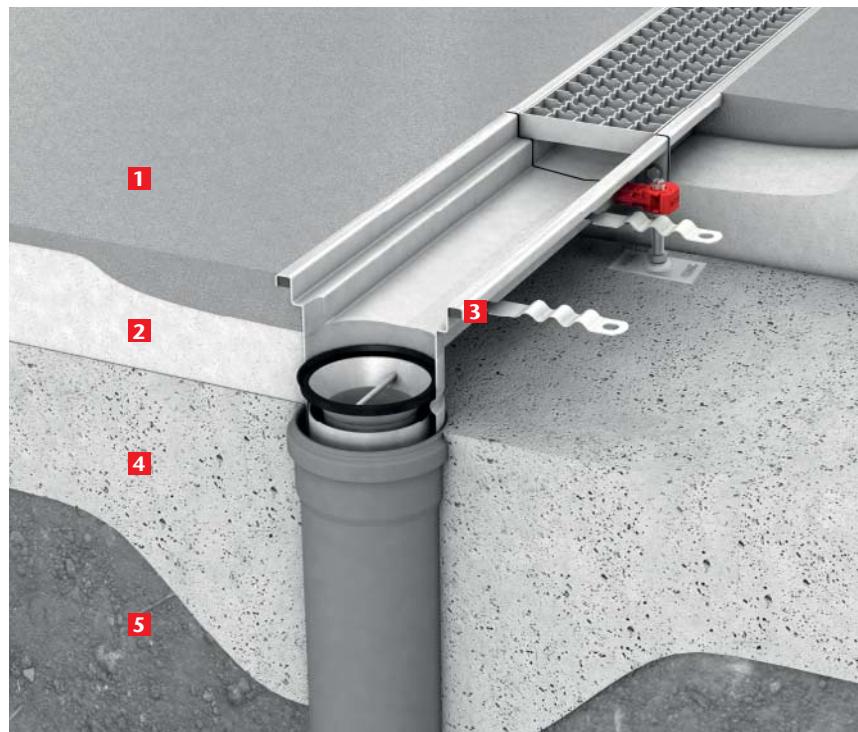
ACO modular box channel standard type – ACO hygienic gully with location flange (Resin floor)



ACO modular box channel vinyl type – ACO hygienic gully with location flange (Vinyl floor)

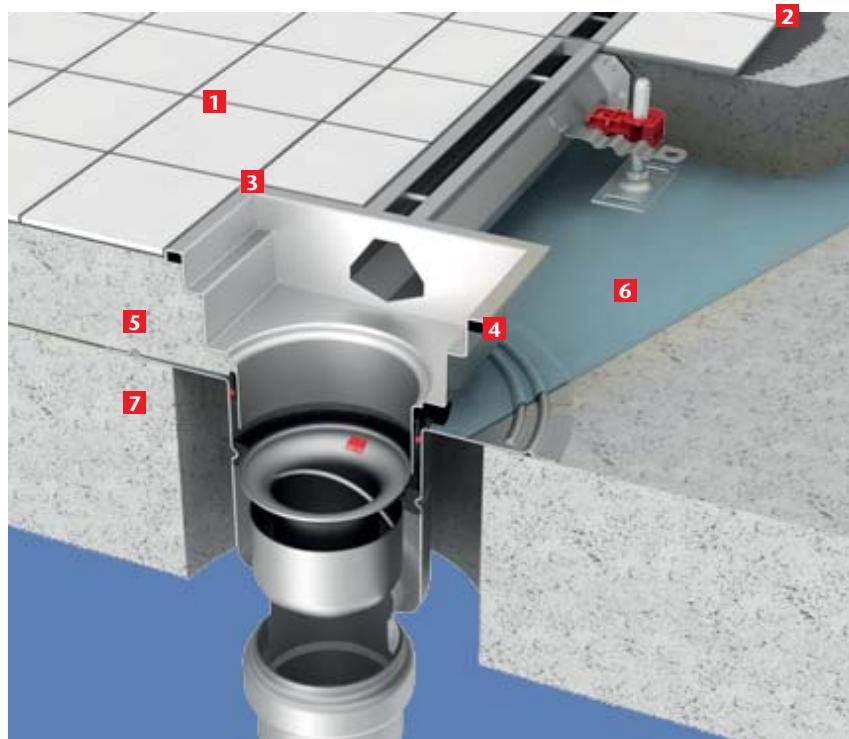


ACO modular box channel standard type – direct connection to sewage pipe system (Resin floor)

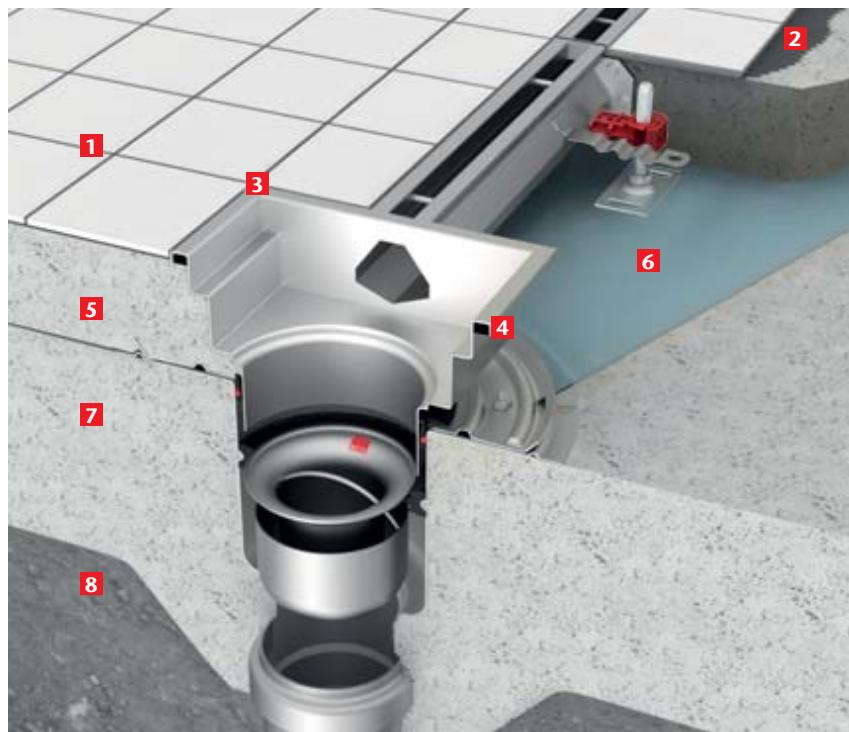


ACO modular slot channel

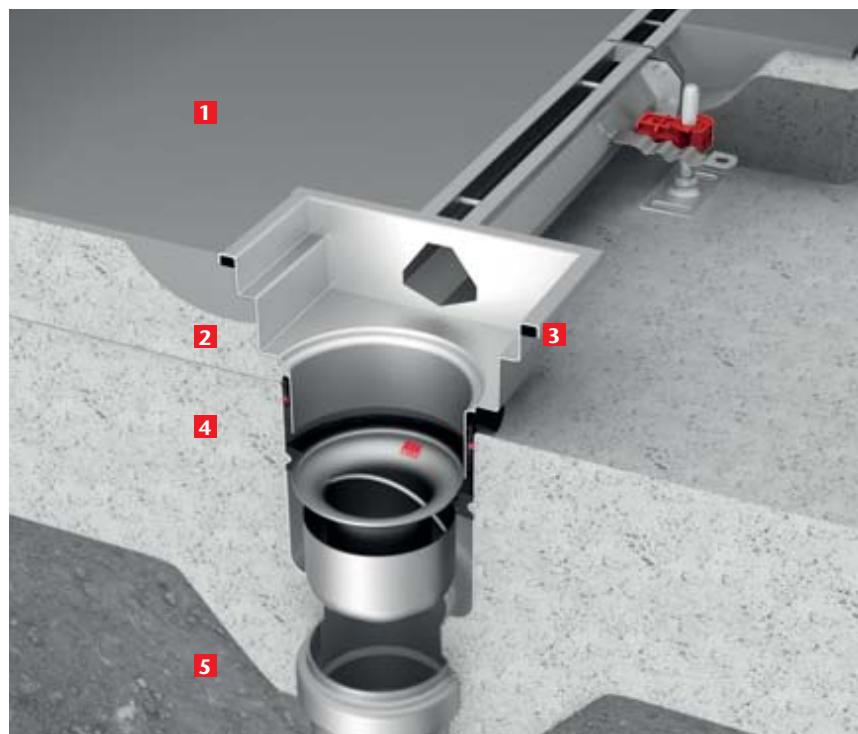
ACO modular slot channel standard type – ACO hygienic gully with adhesive bonding flange (Tiled floor)



ACO modular slot channel standard type – ACO hygienic gully with mechanical clamping flange (Tiled floor)



ACO modular slot channel standard type – ACO hygienic gully with location flange (Resin floor)



ACO pipe

Generally

The following standards will help designers to select the correct size of pipe system for a particular application: EN 12056: gravity drainage systems inside buildings. EN 752: drain and sewer systems outside buildings. Installation should be in accordance with the manufacturer's recommendations as well as with EN 12056–2, EN 12056–3 and EN 752.

Pipe cutting

If it is necessary to adapt or shorten pipe lengths where tools are used, the cut must be square, clean and chamfered.

Suitable cutters are available from ACO.

These tools are designed to form the edge bevel on the male spigoted end of the pipe. Carbon steel cutting wheels are not suitable.

Vertical pipe stacks

The load applied with a fluid in the pipe is vertically down. Position the highest bracket adjacent to the top inlet of the pipe, then mount brackets at 3 meter spacings. At the bottom of the vertical pipe, use a bracket within 200 mm of the bottom. Fit brackets at each change of pipework direction or junction points. Pipework should be at least 30 mm from the wall to facilitate maintenance and painting.

Pipe weights

Engineers should be aware of minimum and maximum weights when designing vertical stack and horizontal pipe run systems. Generally, when the pipe is completely full of water, then the vertical deflection of the pipe between brackets should not exceed 1.5 mm. The discretion of the installer should be applied in each instance to ensure that the pipe is adequately supported.

Pipe jointing

The assembly of pipe joints is quick and straightforward requiring only a light application of lubricant available from ACO to the chamfered pipe end. Ensure that the matching ends of the pipes and fittings are clean and free from contamination. Push-fit the pipe end into the socket, but do not push fully into the socket recess so as to allow for thermal expansion within the system.



Horizontal pipe runs

As a guide, use the table below for bracket spacing on horizontal pipes.

Pipe diameter bracket spacing

Pipe	Length
ø [mm]	[m]
40	2.0
50	2.0
75	2.3
110	2.5
125	3.0
200	3.0
250	3.0

Recommended distances; for installation follow your local standards.



Horizontal pipework should be supported by pipe brackets in 3 meter intervals maximum. One bracket should be within 300 mm of the pipe joint and the other approximately at the midpoint of the pipe length, but not more than 3 metres from the next bracket (depending on the pipe diameter - refer to the upper table).

Additional brackets should be used at changes of direction and at junction points immediately downstream of the fitting. Horizontal pipe runs may be installed at a fall of 1 in 50 and feeder connections should be achieved using 45° branches.

Where long pipe runs occur i.e. greater than 15 meters, a fixing arm should be attached to the bracket to prevent pendulum movement within the system.

Below ground installation

Back-filling

Back-filling around the pipe can only start when the position of the pipe has been checked and approved.



Compression

Care should be taken to avoid distortion of both the pipe run and the pipe itself during back-filling and compaction. Avoid tipping back-fill material directly onto the pipe system. If mechanical compaction is used, the weight and resultant compressive force must be taken into account to avoid distortion. Back-fill materials should be compacted to a minimum of 93%.



Filling in the excavation

Soil from the excavation can be used for filling, but larger stones and blocks should not be used. Compression of the filling material outside reinforced areas is not necessary if the settling will not cause problems or damage.



Local standards

It is recommended to install pipes according to local standards.



ACO protective covers

Description

Product benefits

- Protection from building material debris
- Eliminates cleaning of drainage after installation
- Prevents injuries on worksite
- Certified according to EN 12811-1 for scaffolding load class 3
- Eco friendly and easily disposable

ACO protective covers made from OSB are available for:

- All ACO hygienic gullies and ACO hygienic box channels, standard, semi-standard and customized
- ACO vinyl box channels, standard, semi-standard and customized
- Gully tops on ACO slot channels, semi-standard and customized

Order information:

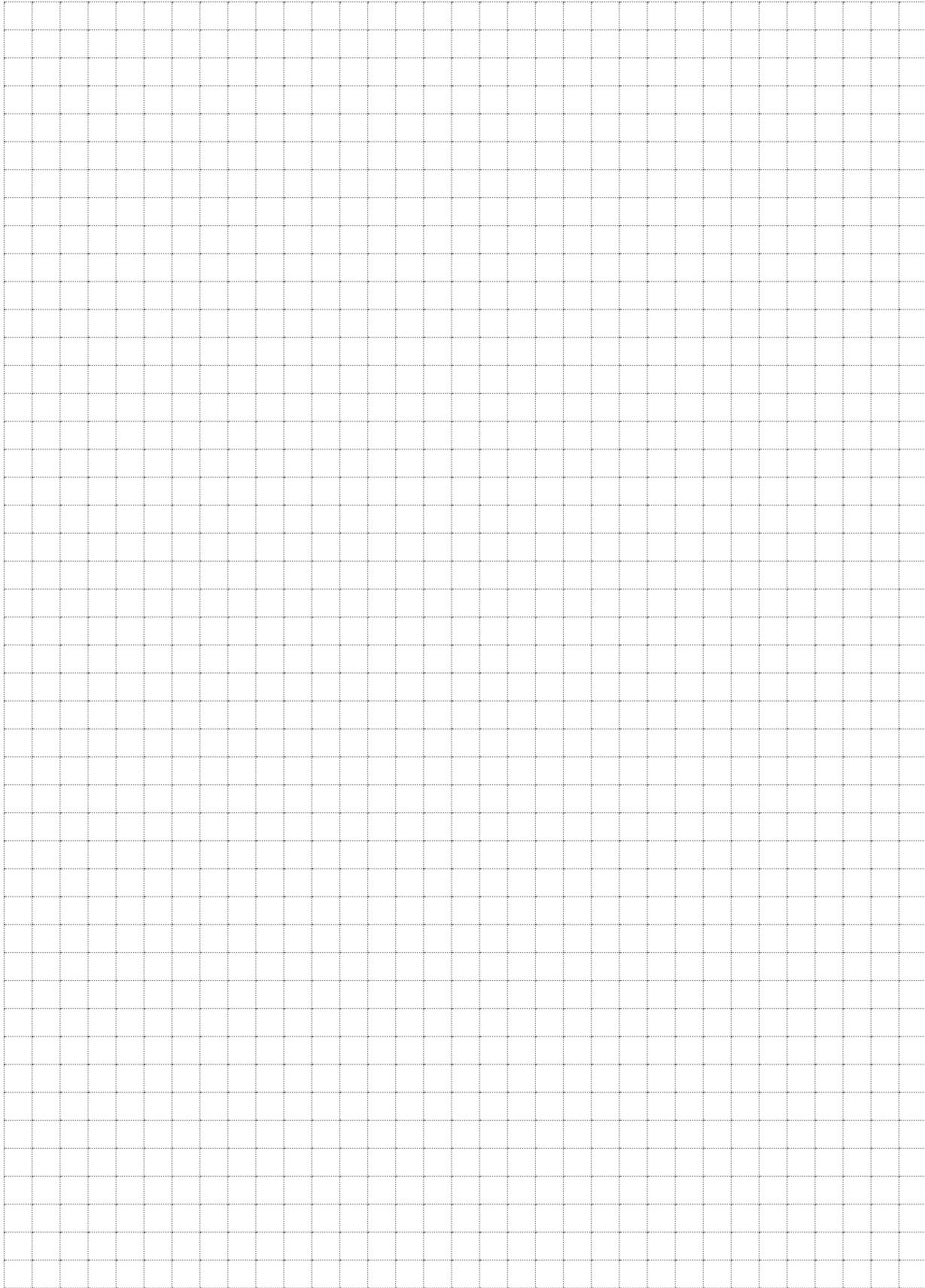
- For standard articles, add _C at the end of product article number (example: 111111_C)
- For semi-standard and customized articles, specify this option in the order process



Load area	Maximum load capacity	Maximum pressure
200 x 200 mm	max. 100 kg	max. 2.5 N/cm ²
500 x 500 mm	max. 150 kg	max. 0.6 N/cm ²
1000 x 1000 mm	max. 200 kg	max. 0.2 N/cm ²

Classification according to EN 12811-1 for scaffolding load class 3

Notes:



5

Resistance of Material

1 = Very good service to operating limit of material

2 = Moderate service

3 = Limited or variable service

4 = Unsatisfactory

	AISI 316 Stainless	AISI 304 Stainless	EPDM	NBR	FPM	TPEV
Acetone	1	1	1	4	4	1
Acetic acid (diluted) 30%	1	1	1	2	2	1
Acetic acid 100%	1	1	1	3	3	1
Acetic acid anhydride	1	1	2	3	4	2
Aluminium chloride	4	4	1	1	1	1
Aluminium sulfate	1	4	1	1	1	1
Ammonium carbonate	1	1	1	4	2	1
Ammonium chloride	2	3	1	1	1	1
Ammonium hydroxide	1	1	1	4	2	1
Amyl chloride	1	1	4	4	1	4
Anilin	1	1	2	4	3	1
Anilin hydrochloride	4	4	2	2	2	2
Barium chloride	2	2	1	1	1	1
Barium hydroxide	1	1	1	1	1	1
Benzaldehyde	1	1	1	4	4	1
Benzene	1	1	4	4	1	4
Benzoic acid	1	1	4	4	1	1
Borax	1	1	1	2	1	1
Boric acid	1	1	1	1	1	1
Bromine	4	4	4	4	1	4
Bromine chloride acid	4	4	1	2	1	2
Bromine hydrogen acid	4	4	1	4	1	2
Bromoethylene	1	1	-	-	-	-
Butanol	1	1	4	1	1	3
Butyl acetate	1	1	2	2	4	3
Butyric acid	1	1	2	4	4	3
Calcium bisulfate el sulfite	1	1	4	1	1	1
Calcium chloride	2	2	1	1	1	1
Calcium hydroxide	1	1	1	1	1	1
Calcium hypoklorite	2	3	1	3	1	3
Carbon disulfide	1	1	4	4	1	3
Carbon tetrachloride	1	1	4	3	1	4
Chloracetic acid (mono)	4	4	2	4	4	2
Chloride	4	4	-	-	-	-

Note:

Concentration levels and length of exposure have a direct influence on the resistance of stainless steel to certain chemicals. Each application should therefore be carefully reviewed to determine the suitability of stainless steel.

Assumptions:

Data presented are used as a guide only, for detailed information please contact our Sales/Technical department.

1 = Very good service to operating limit of material

2 = Moderate service

3 = Limited or variable service

4 = Unsatisfactory

	AISI 316 Stainless	AISI 304 Stainless	EPDM	NBR	FPM	TPEV
Chloril acid	4	4	1	4	-	3
Chlorine (dry)	1	1	1	2	1	4
Chlorobenzene	1	1	4	4	1	4
Chloroform	2	2	4	4	1	4
Chlorosulfonic acid	2	3	4	4	3	4
Copper chloride	2	2	1	1	1	1
Copper nitrate	1	1	1	1	1	1
Copper sulfate	1	1	1	1	1	1
Ether	1	1	3	4	3	3
Ethyl chloride	1	1	1	1	1	3
Fatty acid	1	1	4	2	1	1
Fluorine (dry)	1	1	-	-	-	-
Fluorine hydrogen acid	4	4	2	4	1	4
Formaldehyde	1	1	1	2	1	1
Formic acid	1	1	1	2	3	2
Furfural	1	1	2	4	4	4
Gallic acid	1	1	2	2	1	2
Hydrochloric acid	4	4	1	4	1	1
Hydrogen peroxide	1	1	3	4	2	3
Iodine (wet)	4	4	2	2	1	2
Lead acetate	1	1	1	2	4	1
Magnesium chloride	2	2	1	1	1	1
Magnesium sulfate	1	1	1	1	1	1
Mercury	1	1	1	1	1	1
Methanol	1	1	1	1	3	1
Methyl chloride	1	1	3	4	1	3
Methylene chloride	2	2	4	4	2	4
Naphthalene	1	1	4	4	1	1
Nickel chloride	2	2	1	1	1	1
Nickel sulfate	1	1	1	1	1	1
Nitric acid	3	3	3	4	1	4
Oxalic acid	3	3	1	2	1	2
Perchloric acid	4	4	2	4	1	1
Phosphoric acid	1	1	2	4	1	1
Picric acid	1	1	2	2	1	2
Potassium bromide	1	1	1	1	1	1
Potassium carbonate	1	1	1	2	1	1
Potassium chlorate	1	1	1	1	1	1

Note:

Concentration levels and length of exposure have a direct influence on the resistance of stainless steel to certain chemicals. Each application should therefore be carefully reviewed to determine the suitability of stainless steel.

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	AISI 316 Stainless	AISI 304 Stainless	EPDM	NBR	FPM	TPEV
Potassium cyanide	1	1	1	1	1	1
Potassium hydroxide	1	1	1	2	2	1
Potassium nitrate	1	1	1	1	1	1
Potassium permanganate	1	1	1	3	1	1
Potassium sulfate	1	1	1	1	1	1
Potassium sulfide	1	1	1	1	1	1
Potassiumchloride	2	2	1	1	1	1
Prophylene dichloride	1	1	4	4	1	4
Sal ammoniac	2	3	1	1	1	1
Silver nitrate	1	1	1	2	1	1
Soda (ash)	1	1	1	1	1	1
Sodium acetate	1	1	1	2	4	1
Sodium bicarbonate	1	1	1	1	1	1
Sodium bisulfate	1	3	1	2	1	1
Sodium bisulfite	1	1	1	1	1	1
Sodium bromide	2	2	1	3	1	2
Sodium chlorate	1	1	1	2	1	1
Sodium chloride	4	4	1	1	1	1
Sodium cyanide	1	1	1	1	1	1
Sodium fluoride	1	1	1	1	1	1
Sodium hydroxide	1	1	1	2	2	1
Sodium hypoklorite	4	4	2	2	1	1
Sodium nitrate	1	1	1	2	2	1
Sodium sulfate	1	1	1	1	1	1
Sodium sulfide	1	1	1	1	1	1
Sodium sulfite	1	1	1	1	1	1
Stannicous chloride	2	3	2	1	1	2
Sulfur	1	1	1	4	1	1
Sulfur chloride	1	1	4	3	1	3
Sulfur dioxide	1	2	1	4	1	1
Sulfuric acid	4	4	2	4	1	3
Sulfurous acid	1	3	2	2	1	2
Tionyl chloride	1	1	4	4	1	4
Toluene (toluol)	1	1	4	4	1	4
Trichloroethylene	1	1	4	3	1	4
Turpentine	1	1	4	1	1	4
Xylene (xylol)	1	1	4	4	2	4
Zinc sulfate	1	1	1	1	1	1

Note:

Concentration levels and length of exposure have a direct influence on the resistance of stainless steel to certain chemicals. Each application should therefore be carefully reviewed to determine the suitability of stainless steel.

Assumptions:

Data presented are used as a guide only, for detailed information please contact our Sales/Technical department.

Sealing material information

Sealing material information

EPDM (ethylene propylene diene monomer)

Black sealing rubber ring, which is suitable for most applications where there are no oil or petrol residues in the waste water.

NBR (acryl nitrile-butadiene rubber)

Black sealing rubber ring which is suitable for waste water applications where there are petrol or oil residues. NBR is not resistant to solvents and high temperatures.

FPM (fluoroelastomer) – Viton®

Green sealing rubber ring which is suitable for special applications where oil, solvents and strong acids are present in waste water; and for applications with higher temperatures. Viton® seal has limited resistance to chemicals like acetone, methyl alcohol.

TPEV (thermoplastic elastomer vulkanized)

Sealing rubber with excellent heat resistance, physical and mechanical properties. Suitable for pharmaceutical, medical, food and beverage applications. TPEV has limited resistance in oil or petrol residues in waste water.

Sealing materials

Rubber type	EPDM	NBR	FPM (Viton®)	TPEV
Colour	black	black	green	red
Temperature range	-50 / +130 / +150 °C	-30 / +80 / +100 °C	-20 / +200 / +300 °C	-35 / +120 / +140 °C
Resistance				
Water	excellent	good	good	excellent
Chemicals				
Acids	good	fair	excellent	good
Bases	good	fair	excellent	excellent
Benzene/Petrol	unsatisfied	excellent	excellent	limited
Oils				
ASTM Oil No. 1	unsatisfied	excellent	excellent	limited
ASTM Oil No. 3	unsatisfied	excellent	excellent	limited
Ozone & weather stresses	good	limited	good	good

To be sure of suitability for special applications please consult exact seal material features within ACO installation guide.

Every ACO product supports
the ACO system chain



-
- ACO gully
 - ACO channel
 - ACO pipe
-

ACO Industries k.s.

Havlíčkova 260
582 22 Přibyslav
Czech Republic

www.buildingdrainage.aco

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