



ACO Product Catalogue

ACO Industrial Drainage



ACO. The future of drainage.



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

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.



collect:
Collect and remove



clean:
Pre-clean and process



hold:
Protect and attenuate



release:
Pump, discharge and reuse



ACO system chain
in action

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General introduction

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 on going 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.
Hygienic joints Butt welds are fully welded. 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

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



✓

✗

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



✓

✗

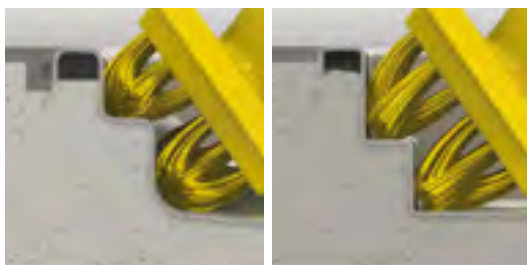
Edge in-fill ensures stable and durable transmission between the gully and surrounding floor and helps to minimise the risk of floor cracks which could harbour microorganism



✓

✗

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) and 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

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.

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).

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 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).

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

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

System overview and benefits



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.

Industrial Drainage selection guide

Application

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	Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers	Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow	Hygienic design is recommended for easy cleaning and maintenance. A combination of products could be considered for easy layout design
	High retention - high flow rate	High retention - high flow rate	High retention - high flow rate
	Slip resistance - high requirement	Slip resistance - high requirement	Slip resistance - high requirement
Dry production process/ Wet cleaning process	Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers	Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow	Hygienic design is recommended for easy cleaning and maintenance; combination of products could be considered for easy layout design
	High flow rate	High flow rate	High flow rate
	Slip resistance - medium requirement	Slip resistance - medium requirement	Slip resistance - medium requirement
Dry production process/ Controlled wet cleaning process	Hygienic design - one piece solution without connections; ladder or cast gratings or slot covers	Hygienic design - connections and mesh gratings could be considered if cleaning and sanitation procedures allow	Hygienic design is recommended for easy cleaning and maintenance. A combination of products could be considered for easy layout design
	Medium to low flow rate	Medium to low flow rate	Medium to low flow rate
	Odour proof cover	Odour proof cover	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)

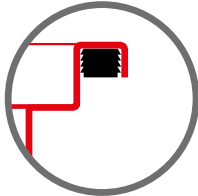
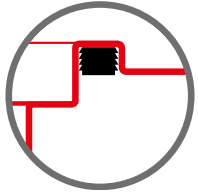
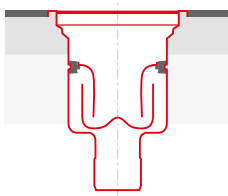
ACO pipes – socket seals can be made from either EPDM (ethylene propylene diene monomer) or FPM (fluoroelastomer) – Viton®.

For details of material resistance see page 226 or contact our Sales/Technical department.

Floor structure and finish

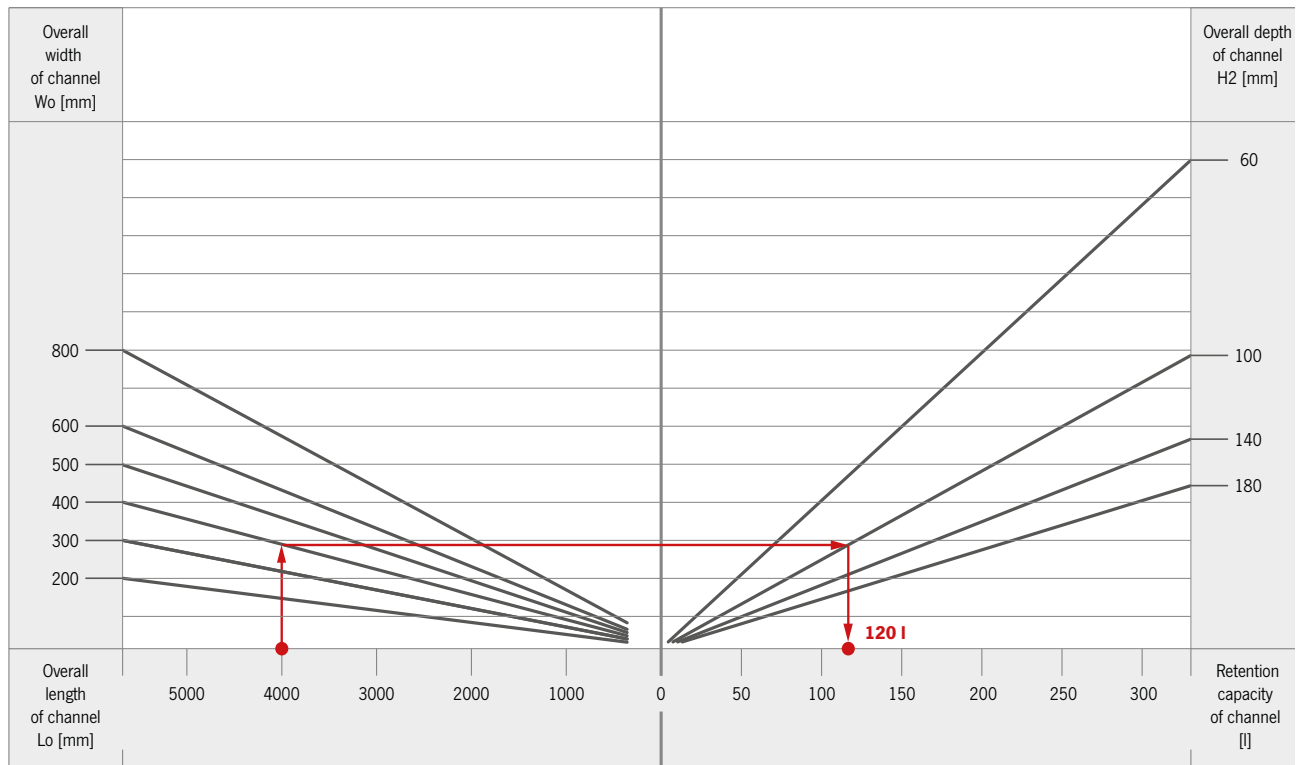
Depending on the composition of the floor construction; the appropriate type of gully or channel should be selected. If there is insulation in the floor structure, the O-ring needs to be removed from the friction ring, which will allow the water from the insulation to be drained to the gully body.

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

Floor finish Channel or gully edge	Channels + Telescopic gullies			Fixed height gully
	Tiled, concrete or resin floor Standard edge	Vinyl Vinyl edge	Tiled (thin bed installation) Extended edge	Tiled, concrete or resin floor 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.

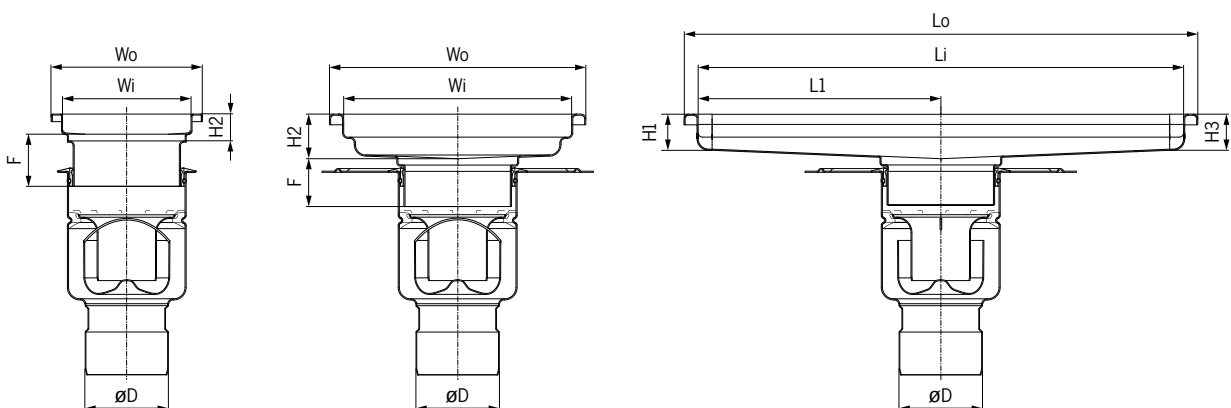


Example: channel length 4000mm, width 400mm, depth 100mm, retention capacity 120 l.

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.

Flow rates			
Outlet position	Gully type	Outlet diameter [mm]	Minimal flow rate [l/s]
Vertical outlet	142	70/75	1.4
		100/110	1.6
	157	70/75	2.7
		100/110	3.5
	218	100/110	5.0
		150/160	5.0
	EG150	70/75	1.2
		100/110	1.2
Horizontal outlet	142	70/75	1.4
		100/110	1.6
	157	70/75	2.6
		100/110	2.8
	218	100/110	4.4
		100/110	4.4
	EG150	70/75	1.2
		70/75	1.2

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

Accessories

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

Telescopic connection without flange for waterproofing	Telescopic connection with flange for waterproofing		
ACO gully EG150	ACO hygienic gully 142	ACO hygienic gully 157	ACO hygienic gully 218
Accessories delivered as standard with the gully			
Friction ring	- Friction ring - FAT - FAT support	- Friction ring - FAT - FAT support	- Friction ring - FAT - FAT support
Optional accessories			
- Sieve - FAT with silt basket - FAT	- Silt basket for fixed height gully 0.3 l - Silt basket for telescopic gully 0.4 l	- Silt basket for vertical gully 0.6 l - Silt basket for horizontal gully 0.3 l	- Silt basket for vertical gully 1.4 l - Silt basket for horizontal gully 0.7 l

Gratings

For selecting the appropriate grating, the following properties have to be considered:

- Hygiene (cleanability)
- Load class
- Slip resistant

	Cast grating	Ladder grating		Slot cover	Mesh grating	
	Slip resistant	Slip resistant	Plain	Plain	Slip resistant	Plain
Potential for slip - Pendulum test BS 7976-2	Low	Low	Moderate	Low	Low	Moderate
Slip resistance classification - Ramp test DIN 51130	R13	R11	R9	R11	R11	R9
Load classes	M 125	R 50	R 50	R 50	L 15	L 15
		M 125	M 125	M 125		
		N 250	N 250	N 250		

Load class

Though it is recommended to avoid traffic across the drainage system, to minimize the risk of floor/drainage connection failures from dynamic loading, the proper load class defined by the grating has to be considered based on the defined traffic during all future operations.

Load class Application	Load class according to EN 1253	Description
	L 15	Areas with light vehicular traffic, such as: ▪ Commercially used premises and public areas
	R 50	Areas with vehicular traffic, such as: ▪ Commercially used premises and factories
	M 125	Areas with vehicular traffic such as: ▪ Workshops, factories & car parks
	N 250	Heavy duty industrial areas subject to forklift traffic, such as: ▪ Food processing areas, chemical or process plants



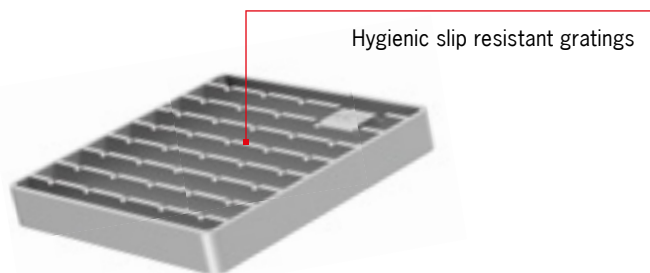
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	Raising piece – telescopic	33
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	Telescopic – vertical outlet	39
	Telescopic – horizontal outlet	42
	Gully top – telescopic	45
	Raising piece – telescopic	47
	Fixed height – vertical outlet	48
	Fixed height – horizontal outlet	50
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	Telescopic – horizontal outlet	54
	Gully top – telescopic	56
	Raising piece – telescopic	58
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Gratings	Gratings for gully top 250 x 250	64
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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.

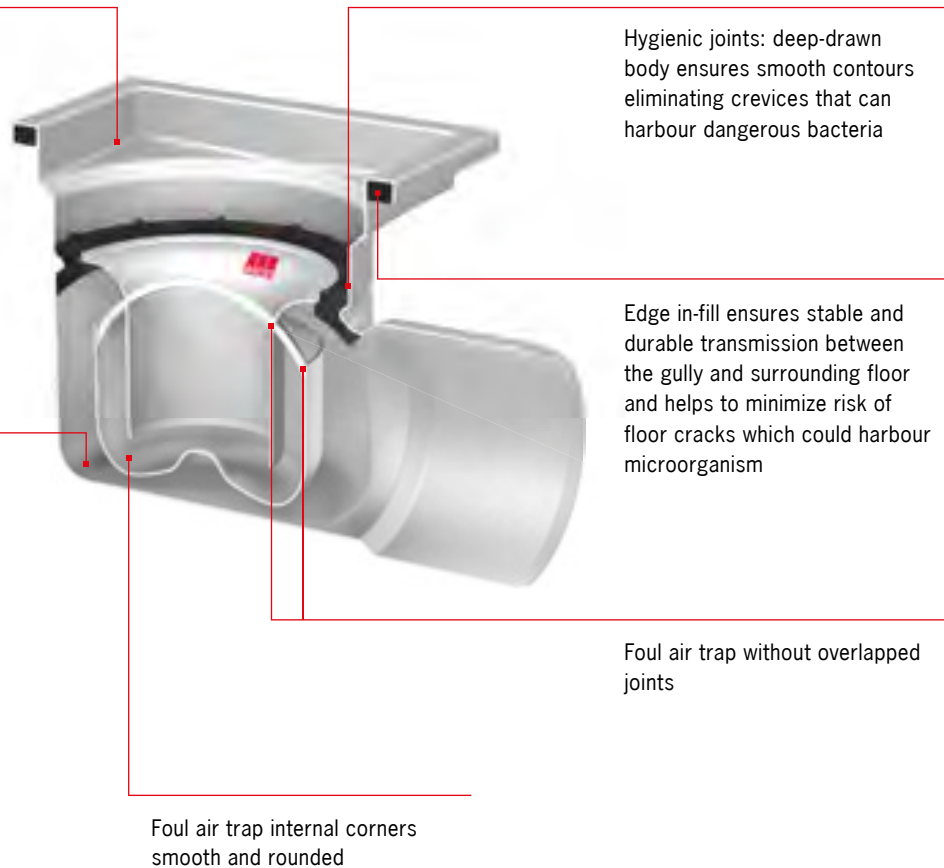
ACO gully hygienic features:

- 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

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



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.

Fixed height 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

Telescopic solution



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.

HygieneFirst features

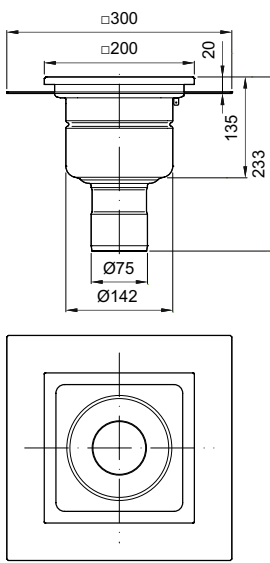
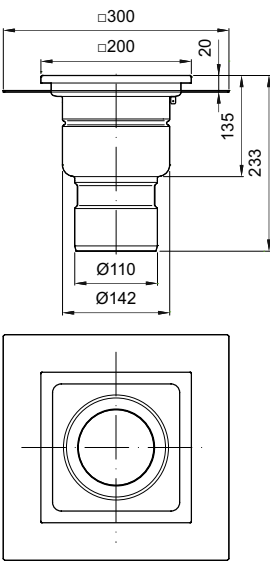
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
 - Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
 - Fully pickled and passivated
 - Fully removable and easily cleanable stainless steel foul air trap (FAT)
 - Protective cover available.
- See page 224 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)
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully top frame size: 200 x 200 mm
- 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	Material	Item number
Standard edge					
	200 x 200	75	Without FAT	1.4301	414700
				1.4404	414800
			With FAT	1.4301	414701
				1.4404	414801
	200 x 200	110	Without FAT	1.4301	414702
				1.4404	414802
			With FAT	1.4301	414703
				1.4404	414803

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
Extended edge					
	200 x 200	75	With FAT	1.4301	414744
				1.4404	414844
	200 x 200	110	With FAT	1.4301	414745
				1.4404	414845

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.

HygieneFirst features

- 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 pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available. See page 224 for more details

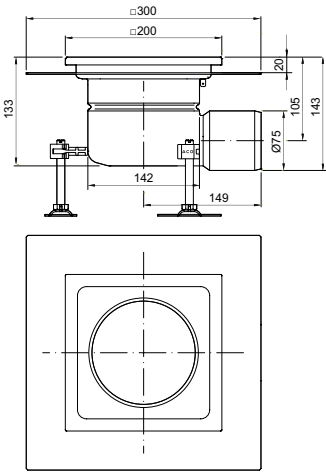
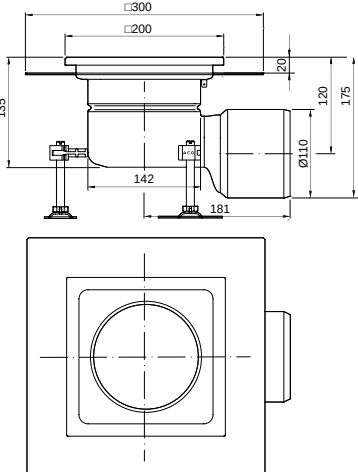
- Tested and certified according to EN 1253
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully top frame size: 200 x 200 mm
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
Standard edge					
	200 x 200	75	Without FAT	1.4301	414704
				1.4404	414804
			With FAT	1.4301	414705
				1.4404	414805
	200 x 200	110	Without FAT	1.4301	414706
				1.4404	414806
			With FAT	1.4301	414707
				1.4404	414807

ACO hygienic gully 142
Fixed height – horizontal outlet

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
Extended edge					
	200 x 200	75	With FAT	1.4301	414746
				1.4404	414846
	200 x 200	110	With FAT	1.4301	414747
				1.4404	414847

Telescopic – vertical outlet

Product information

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

Telescopic solution enables height and rotational adjustment of connected gully top or channel. Gullies are equipped with flanges for connection of waterproof membrane.

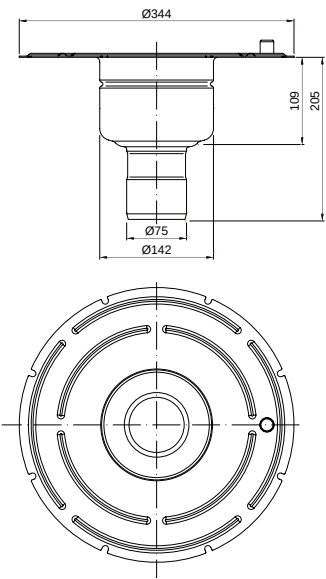
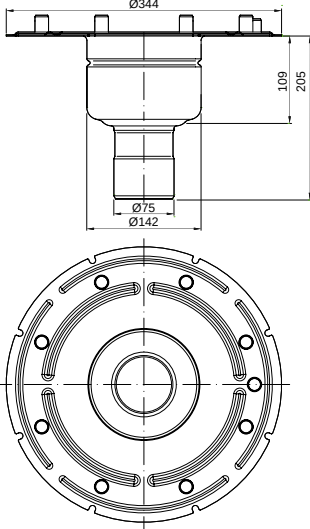
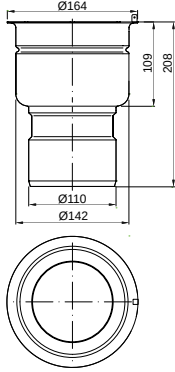
HygieneFirst features

- 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
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- 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 pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)



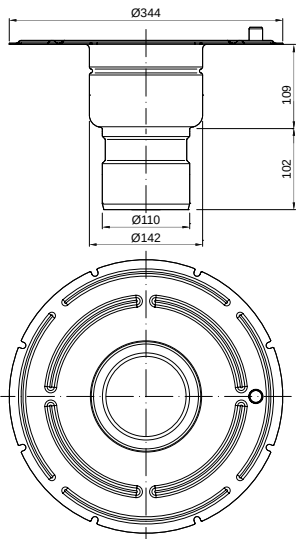
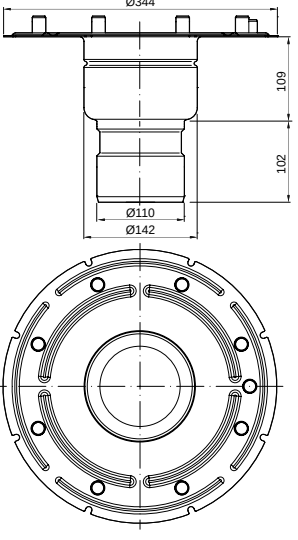
Order information

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	75	Without FAT	1.4301	414708
				1.4404	414808
			With FAT	1.4301	414709
				1.4404	414809

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	75	Without FAT	1.4301	414710
				1.4404	414810
			With FAT	1.4301	414711
				1.4404	414811
	Mechanical clamping flange	75	Without FAT	1.4301	414712
				1.4404	414812
			With FAT	1.4301	414713
				1.4404	414813
	Location flange	110	Without FAT	1.4301	414714
				1.4404	414814
			With FAT	1.4301	414715
				1.4404	414815

ACO hygienic gully 142

Telescopic – vertical outlet

	Type of flange	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	110	Without FAT	1.4301	414716
				1.4404	414816
			With FAT	1.4301	414717
				1.4404	414817
	Mechanical clamping flange	110	Without FAT	1.4301	414718
				1.4404	414818
			With FAT	1.4301	414719
				1.4404	414819

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.

HygieneFirst features

- 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 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
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- Adjustable EasyFix levelling feet

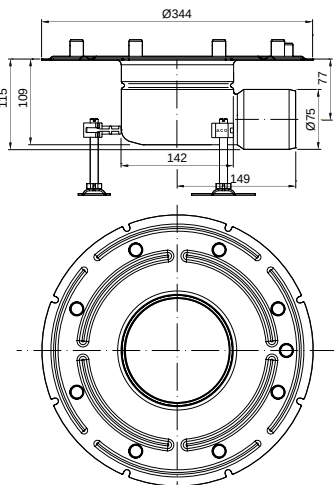
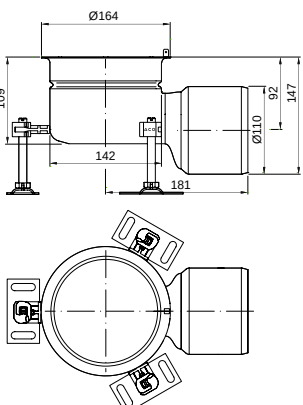
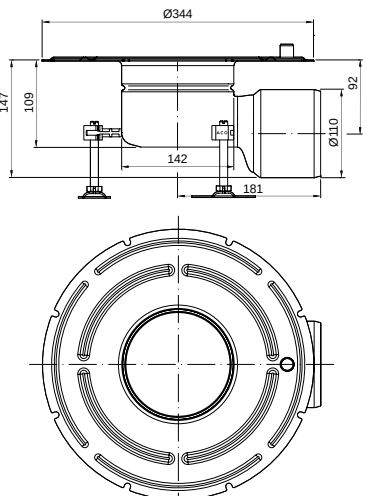


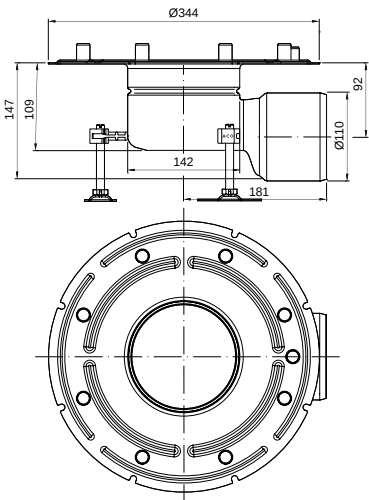
Order information

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	With location flange	75	Without FAT	1.4301	414720
				1.4404	414820
			With FAT	1.4301	414721
				1.4404	414821
	With adhesive bonding flange	75	Without FAT	1.4301	414722
				1.4404	414822
			With FAT	1.4301	414723
				1.4404	414823

ACO hygienic gully 142

Telescopic – horizontal outlet

	Type of flange	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
	With mechanical clamping flange	75	Without FAT	1.4301	414724
				1.4404	414824
			With FAT	1.4301	414725
				1.4404	414825
	With location flange	110	Without FAT	1.4301	414726
				1.4404	414826
			With FAT	1.4301	414727
				1.4404	414827
	With adhesive bonding flange	110	Without FAT	1.4301	414728
				1.4404	414828
			With FAT	1.4301	414729
				1.4404	414829

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	With mechanical clamping flange	110	Without FAT	1.4301	414730
				1.4404	414830
			With FAT	1.4301	414731
				1.4404	414831

Gully top – telescopic

Product information

Gully top can be combined with telescopic gully. Different gully top types are available depending on floor structure.

HygieneFirst features

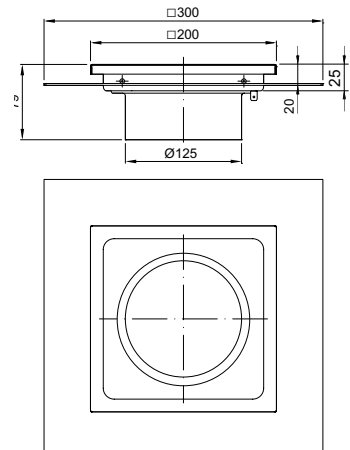
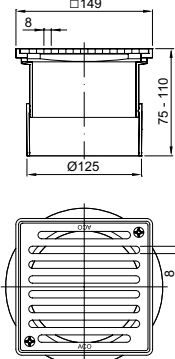
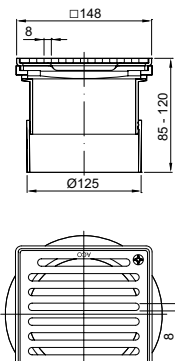
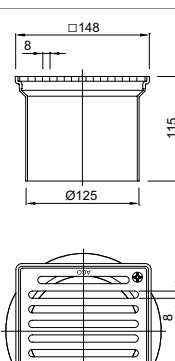
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Protective cover available.
See page 224 for more details

- Tested and certified according to EN 1253
- Gully top frame size: 200 x 200 mm
- 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

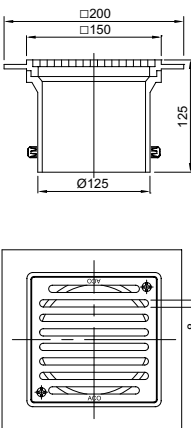
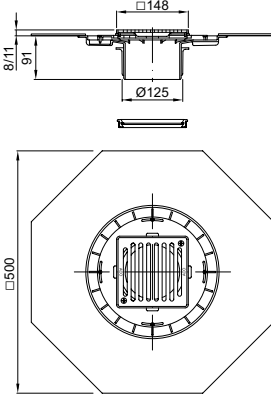
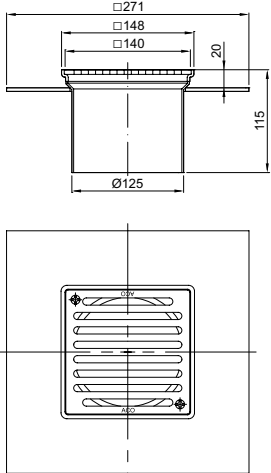
	Gully top type	Gully top size □ [mm]	Material	Item number
	Standard edge	200 x 200	1.4301	414732
			1.4404	414832
	Extended edge	200 x 200	1.4301	414734
			1.4404	414834

	Gully top type	Gully top size □ [mm]	Material	Item number
	Extended top with drainage holes	200 x 200	1.4301	414735
			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 *

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

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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.

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.

HygieneFirst features

- 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 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
	Location flange	1.4301	414736
		1.4404	414836
	Adhesive bonding flange	1.4301	414737
		1.4404	414837
	Mechanical clamping flange	1.4301	414738
		1.4404	414838

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.

HygieneFirst features

- 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 pickled and passivated
 - Fully removable and easily cleanable stainless steel foul air trap (FAT)
 - Protective cover available.
- See page 224 for more details

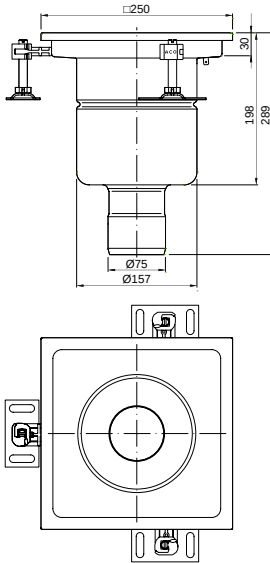
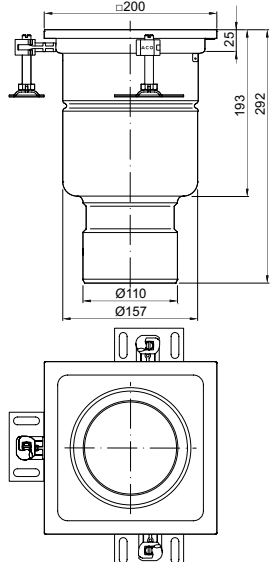
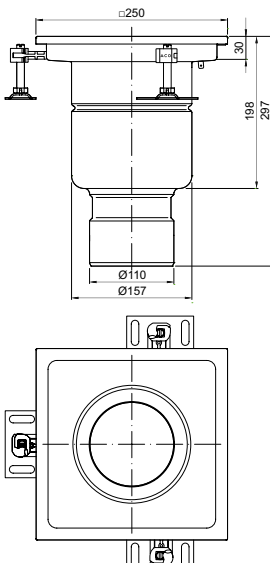
- Tested and certified according to EN 1253
- Fire tested and certified solution available for classes EI 90 – EI 180 (EN 13 501-2)
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully top frame size: 200 x 200 mm and 250 x 250 mm
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
Standard edge					
	200 x 200	75	Without FAT	1.4301	408000
				1.4404	408100
			With FAT	1.4301	408001
				1.4404	408101

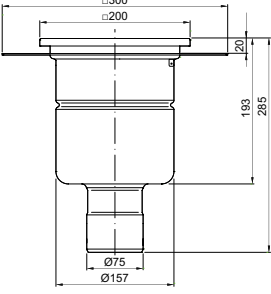
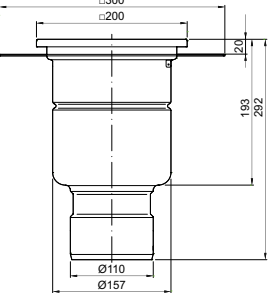
ACO hygienic gully 157
Fixed height – vertical outlet

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	250 x 250	75	Without FAT	1.4301	408016
				1.4404	408116
			With FAT	1.4301	408017
				1.4404	408117
	200 x 200	110	Without FAT	1.4301	408002
				1.4404	408102
			With FAT	1.4301	408003
				1.4404	408103
	250 x 250	110	Without FAT	1.4301	408018
				1.4404	408118
			With FAT	1.4301	408019
				1.4404	408119

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Fixed height – vertical outlet

ACO gully

	Top size □ [mm]	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
Extended edge					
	200 x 200	75	With FAT	1.4301	408047
				1.4404	408147
	200 x 200	110	With FAT	1.4301	408099
				1.4404	408199

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.

HygieneFirst features

- 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 pickled and passivated
 - Fully removable and easily cleanable stainless steel foul air trap (FAT)
 - Protective cover available.
- See page 224 for more details

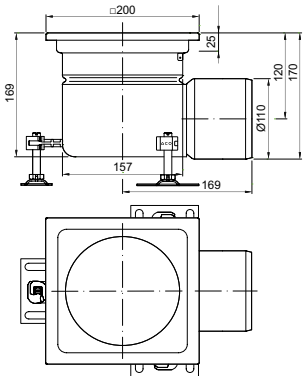
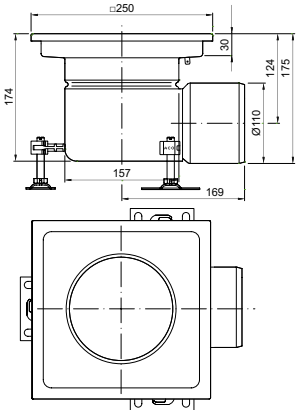
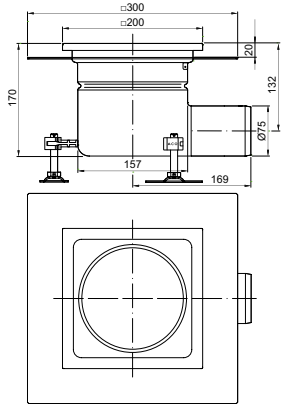
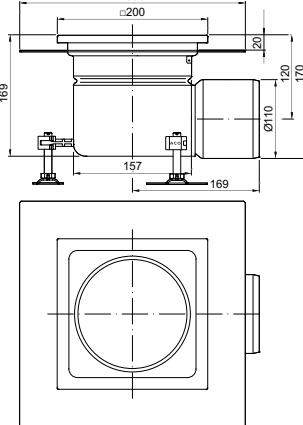
- Tested and certified according to EN 1253
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully top frame size: 200 x 200 mm and 250 x 250 mm
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
Standard edge					
	200 x 200	75	Without FAT	1.4301	408008
				1.4404	408108
			With FAT	1.4301	408009
				1.4404	408109
	250 x 250	75	Without FAT	1.4301	408024
				1.4404	408124
			With FAT	1.4301	408025
				1.4404	408125

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Fixed height – horizontal outlet

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	200 x 200	110	Without FAT	1.4301	408010
				1.4404	408110
			With FAT	1.4301	408011
				1.4404	408111
	250 x 250	110	Without FAT	1.4301	408026
				1.4404	408126
			With FAT	1.4301	408027
				1.4404	408127
Extended edge					
	200 x 200	75	With FAT	1.4301	408014
				1.4404	408114
	200 x 200	110	With FAT	1.4301	408015
				1.4404	408115

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.

HygieneFirst features

- 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
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- 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 pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)

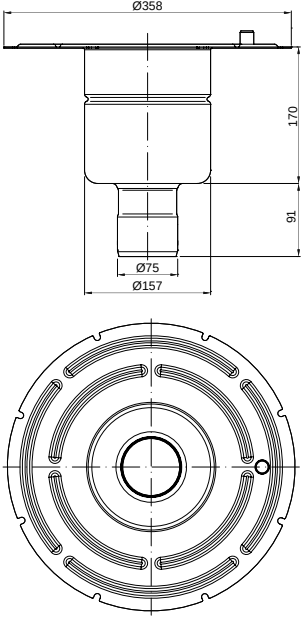
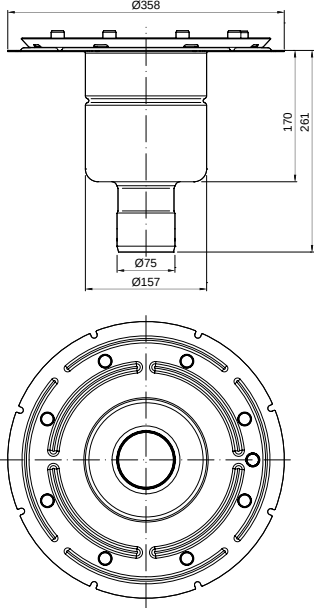
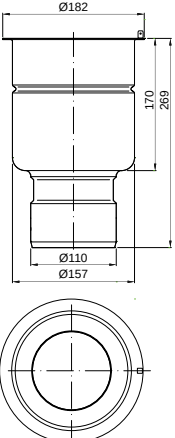


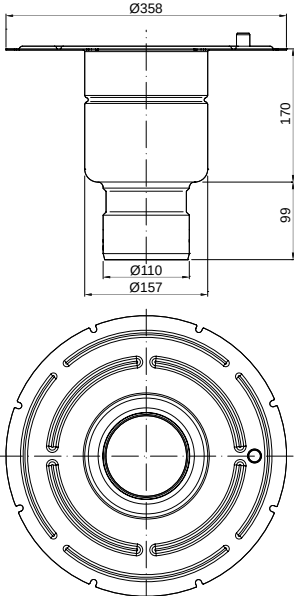
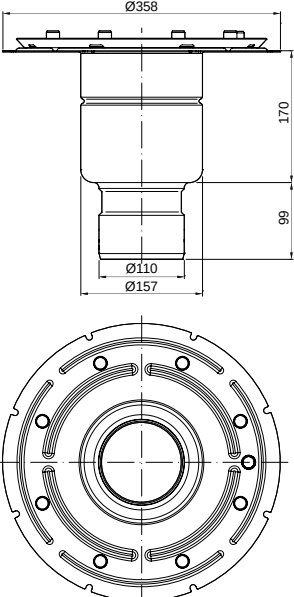
Order information

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	75	Without FAT	1.4301	408048
				1.4404	408148
			With FAT	1.4301	408049
				1.4404	408149

ACO hygienic gully 157

Telescopic – vertical outlet

	Type of flange	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	75	Without FAT	1.4301	408050
				1.4404	408150
			With FAT	1.4301	408051
				1.4404	408151
	Mechanical clamping flange	75	Without FAT	1.4301	408052
				1.4404	408152
			With FAT	1.4301	408053
				1.4404	408153
	Location flange	110	Without FAT	1.4301	408054
				1.4404	408154
			With FAT	1.4301	408055
				1.4404	408155

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	110	Without FAT	1.4301	408056
				1.4404	408156
			With FAT	1.4301	408057
				1.4404	408157
	Mechanical clamping flange	110	Without FAT	1.4301	408058
				1.4404	408158
			With FAT	1.4301	408059
				1.4404	408159

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.

HygieneFirst features

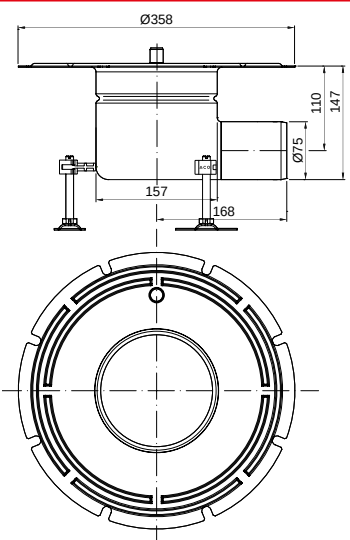
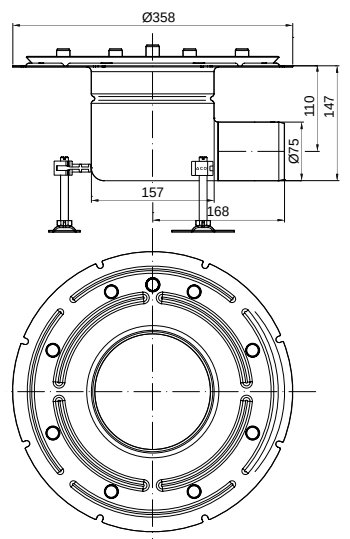
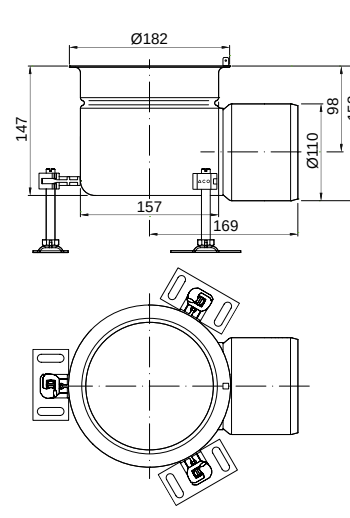
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)

- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Outlet diameter DN 70/DN 100 (75 mm or 110 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- Adjustable EasyFix levelling feet

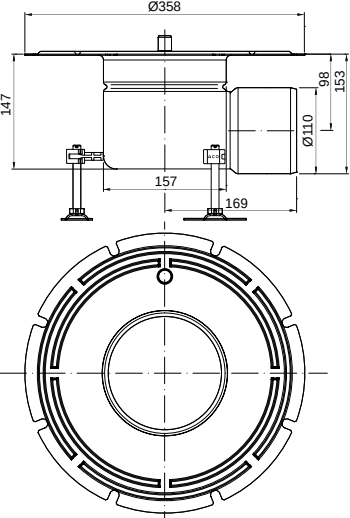
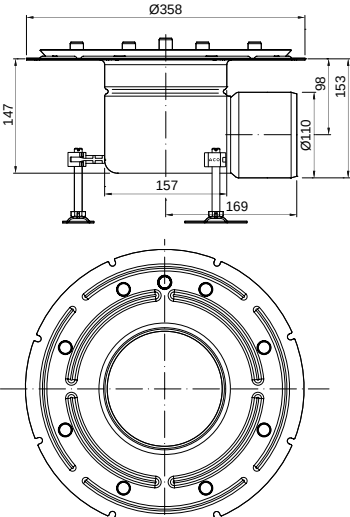


Order information

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	75	Without FAT	1.4301	408072
				1.4404	408172
			With FAT	1.4301	408073
				1.4404	408173

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	75	Without FAT	1.4301	408074
				1.4404	408174
			With FAT	1.4301	408075
				1.4404	408175
	Mechanical clamping flange	75	Without FAT	1.4301	408076
				1.4404	408176
			With FAT	1.4301	408077
				1.4404	408177
	Location flange	110	Without FAT	1.4301	408078
				1.4404	408178
			With FAT	1.4301	408079
				1.4404	408179

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Telescopic – horizontal outlet

	Type of flange	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	110	Without FAT	1.4301	408080
				1.4404	408180
			With FAT	1.4301	408081
				1.4404	408181
	Mechanical clamping flange	110	Without FAT	1.4301	408082
				1.4404	408182
			With FAT	1.4301	408083
				1.4404	408183

Gully top – telescopic

Product information

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

HygieneFirst features

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
 - Available in grades 1.4301 (304) or 1.4401 (316L) of stainless steel
 - Fully pickled and passivated
 - Protective cover available.
- See page 224 for more details

- Tested and certified according to EN 1253
- Gully top frame size: 200 x 200 mm and 250 x 250 mm
- 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

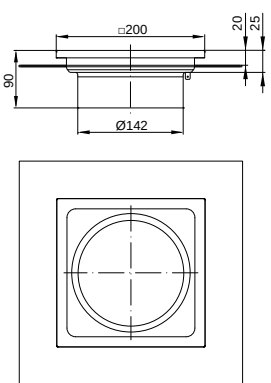
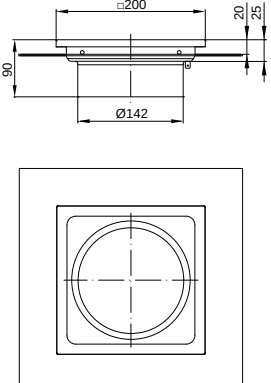
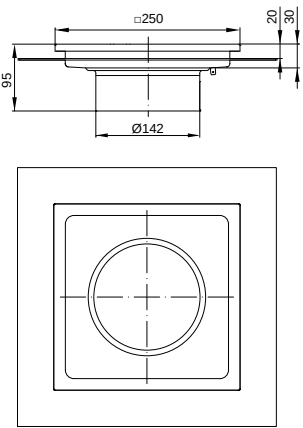
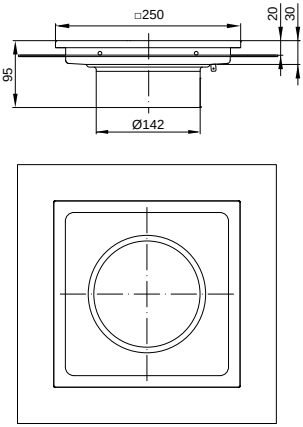


Order information

	Gully top type	Gully top size [mm]	Material	Item number
	Standard edge	□ 200 x 200	1.4301	408208
			1.4404	408218
	Standard edge	□ 250 x 250	1.4301	408248
			1.4404	408258
	Vinyl edge	ø289	1.4301	408240 *
			1.4404	408250 *

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

ACO hygienic gully 157
Telescopic – horizontal outlet

	Gully top type	Gully top size [mm]	Material	Item number
	Extended edge	□ 200 x 200	1.4301	408241
			1.4404	408251
	Extended edge with drainage holes	□ 200 x 200	1.4301	408244
			1.4404	408254
	Extended edge	□ 250 x 250	1.4301	408245
			1.4404	408255
	Extended edge with drainage holes	□ 250 x 250	1.4301	408246
			1.4404	408256

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.

- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Variety of flanges for membranes
- Telescopic friction ring included



HygieneFirst features

- 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 pickled and passivated

Order information

	Type of flange	Material	Item number
	Location flange	1.4301	408249
		1.4404	408259
	Adhesive bonding flange	1.4301	408206
		1.4404	408216
	Mechanical clamping flange	1.4301	408207
		1.4404	408217

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.

HygieneFirst features

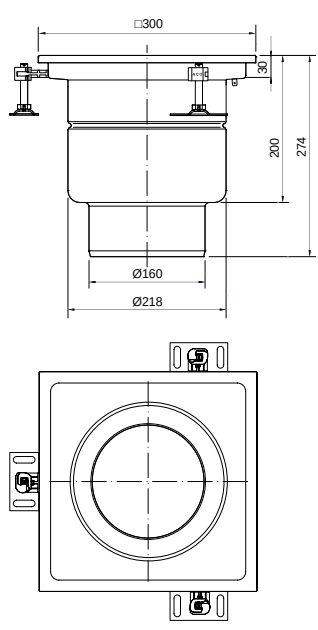
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Protective cover available.
See page 224 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)
- Outlet diameter DN 100/DN 150 (110 mm or 160 mm O.D.)
- Gully top frame size: 300 x 300 mm
- 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	Material	Item number
Standard edge					
	300 x 300	110	Without FAT	1.4301	408004
				1.4404	408104
			With FAT	1.4301	408005
				1.4404	408105

	Top size □ [mm]	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	300 x 300	160	Without FAT	1.4301	408006
				1.4404	408106
			With FAT	1.4301	408007
				1.4404	408107

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.

HygieneFirst features

- 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 pickled and passivated
 - Fully removable and easily cleanable stainless steel foul air trap (FAT)
 - Protective cover available.
- See page 224 for more details

- Tested and certified according to EN 1253
- Outlet diameter DN 100/DN 150 (110 mm or 160 mm O.D.)
- Gully top frame size: 300 x 300 mm
- 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	Material	Item number
Standard edge					
	300 x 300	110	Without FAT	1.4301	408012
				1.4404	408112
			With FAT	1.4301	408013
				1.4404	408113

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.

HygieneFirst features

- 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
- Outlet diameter DN 100/DN 160 (110 mm or 160 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- 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 pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)



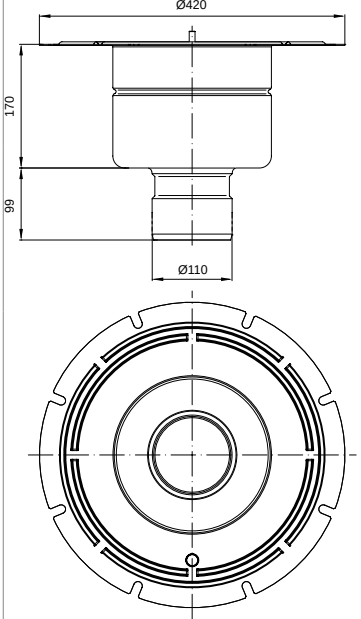
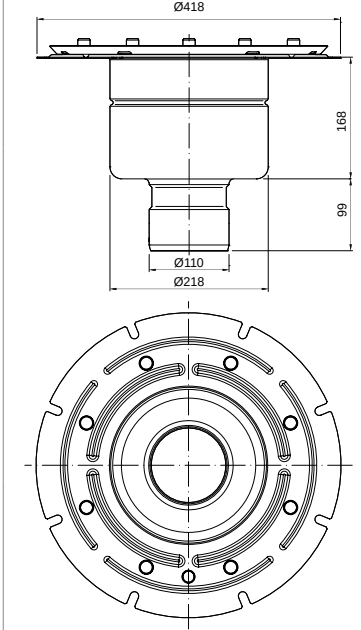
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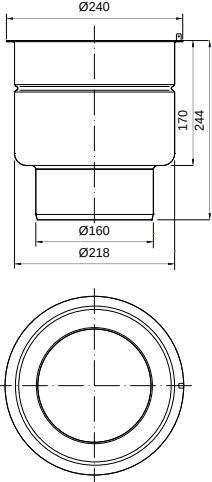
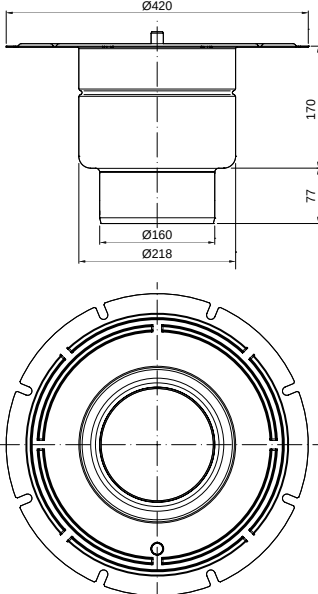
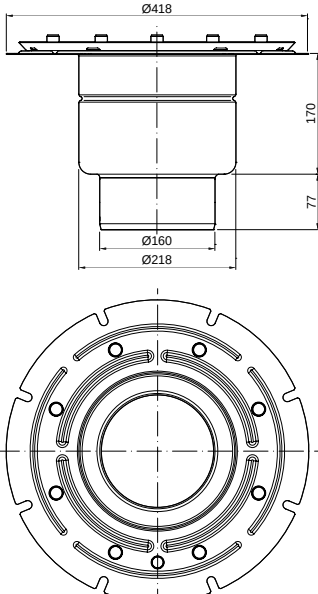
	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	110	Without FAT	1.4301	408060
				1.4404	408160
			With FAT	1.4301	408061
				1.4404	408161

ACO hygienic gully 218

Telescopic - vertical outlet

ACO gully

	Type of flange	Outlet diameter Ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	110	Without FAT	1.4301	408062
				1.4404	408162
			With FAT	1.4301	408063
				1.4404	408163
	Mechanical clamping flange	110	Without FAT	1.4301	408064
				1.4404	408164
			With FAT	1.4301	408065
				1.4404	408165

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	160	Without FAT	1.4301	408066
				1.4404	408166
			With FAT	1.4301	408067
				1.4404	408167
	Adhesive bonding flange	160	Without FAT	1.4301	408068
				1.4404	408168
			With FAT	1.4301	408069
				1.4404	408169
	Mechanical clamping flange	160	Without FAT	1.4301	408070
				1.4404	408170
			With FAT	1.4301	408071
				1.4404	408171

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.

HygieneFirst features

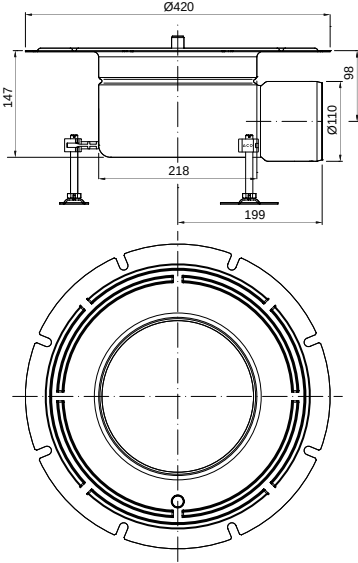
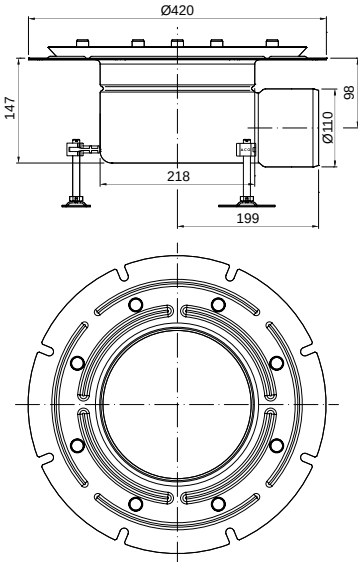
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Fully removable and easily cleanable stainless steel foul air trap (FAT)

- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Outlet diameter DN 100/DN 160 (110 mm or 160 mm O.D.)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp
- Telescopic friction ring included
- Adjustable EasyFix levelling feet



Order information

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Location flange	110	Without FAT	1.4301	408084
				1.4404	408184
			With FAT	1.4301	408085
				1.4404	408185

	Type of flange	Outlet diameter ø [mm]	Foul air trap	Material	Item number
	Adhesive bonding flange	110	Without FAT	1.4301	408086
				1.4404	408186
			With FAT	1.4301	408087
				1.4404	408187
	Mechanical clamping flange	110	Without FAT	1.4301	408088
				1.4404	408188
			With FAT	1.4301	408089
				1.4404	408189

Gully top – telescopic

Product information

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

HygieneFirst features

- 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 pickled and passivated
- Protective cover available.
See page 224 for more details

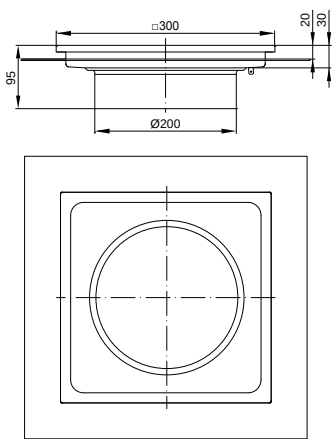
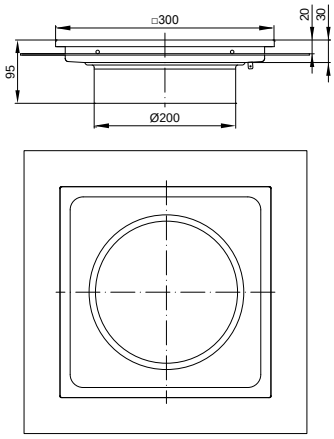
- Tested and certified according to EN 1253
- Gully top frame size: 300 x 300 mm
- Wide range of gratings for load class L 15, R 50, M 125 or N 250 (EN 1253) including slip resistant solution
- Adjustable EasyFix levelling feet



Order information

	Gully Top type	Gully Top size ø [mm]	Material	Item number
	Standard edge	300 x 300	1.4301	408228
			1.4404	408238
	Vinyl edge	ø350	1.4301	408242 *
			1.4404	408252 *

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

	Gully Top type	Gully Top size ø [mm]	Material	Item number
	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

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.

- Tested and certified according to EN 1253
- Suitable for all floor types including vinyl flooring
- Variety of flanges for membranes
- Telescopic friction ring included



HygieneFirst features

- 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 pickled and passivated

Order information

	Type of flange	Material	Item number
	Location flange	1.4301	408209
		1.4404	408219
	Adhesive bonding flange	1.4301	408226
		1.4404	408236
	Mechanical clamping flange	1.4301	408227
		1.4404	408237

Telescopic – vertical outlet

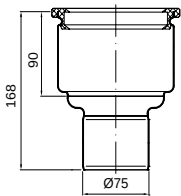
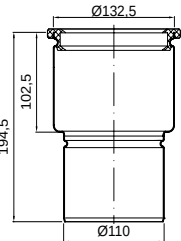
Product information

ACO gully EG150 can be combined with ACO channel with outlet diameter 110 mm. Foul air trap needs to be ordered separately.

- 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.

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.

- Stainless steel construction for durability and long life



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.

Gratings for gully top 200 x 200 mm

Product information

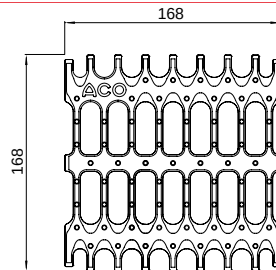
Variety of grate types is available depending on application and requested load class. For applications with high hygienic demands ladder grate or cast grate should be selected.

- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Gully top frame size: 200 x 200 mm
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

HygieneFirst features

- 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 pickled and passivated

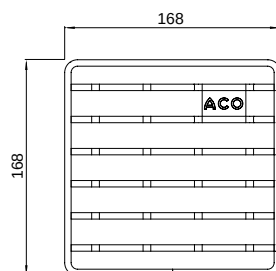
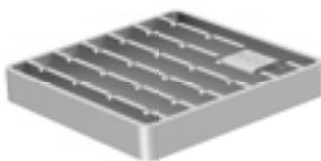
ACO hygienic cast grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	416942

Note: Surface electropolished

ACO hygienic ladder grating



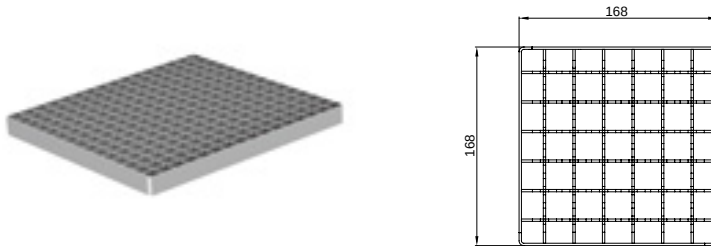
Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	416912
		1.4404	416913
M 125	Yes	1.4301	408093
		1.4404	408193
N 250	No	1.4301	408043
		1.4404	408143

Note: Surface electropolished

ACO gully - gratings

Gratings for gully top 200 x 200 mm

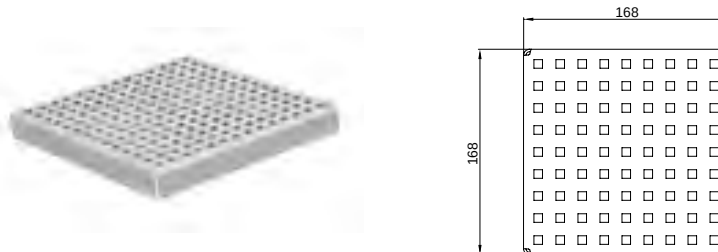
ACO mesh grating



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

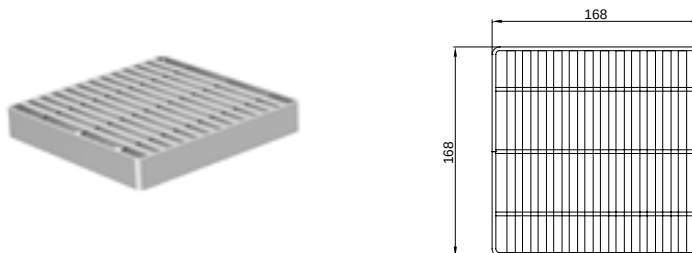
Note: Surface electropolished

ACO quadrato grating



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

ACO heelsafe grating



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

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

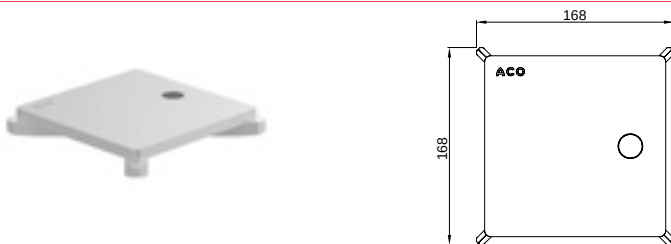
ACO multi-slot 5 grating



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

Note: Surface electropolished

ACO hygienic slot cover



Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	445780
		1.4404	445781
M 125	Yes	1.4301	445782
		1.4404	445783

Note: Top surface sandblasted

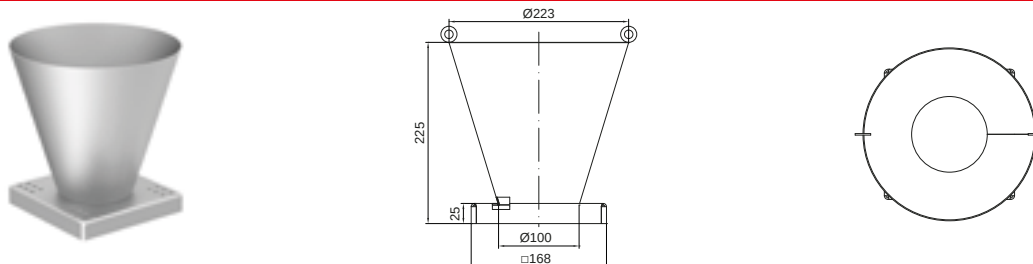
ACO odour proof gully cover



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 72.

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 250 x 250 mm

Product information

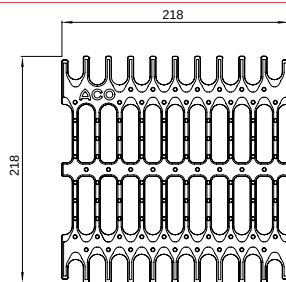
Variety of grate types is available depending on application and requested load class. For applications with high hygienic demands ladder grate or cast grate should be selected.

HygieneFirst features

- 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 pickled and passivated

- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Gully top frame size: 250 x 250 mm
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

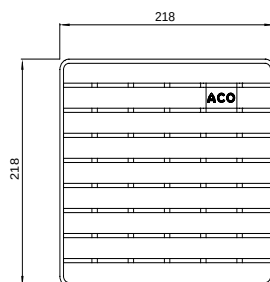
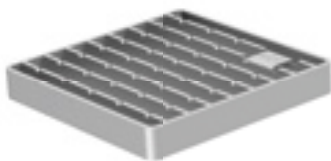
ACO hygienic cast grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	416943

Note: Surface electropolished

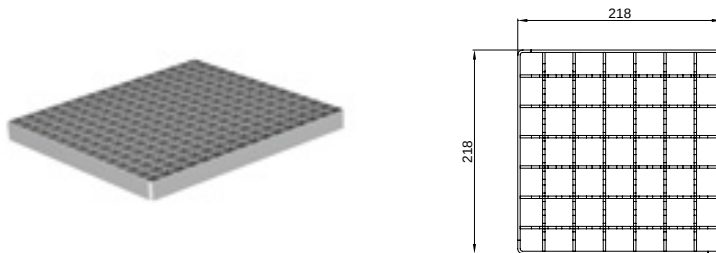
ACO hygienic ladder grating



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

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 *

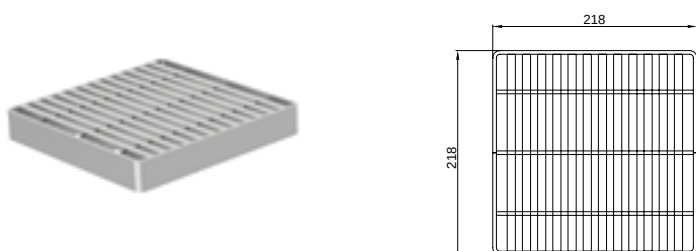
Note: Surface electropolished

ACO quadrato grating



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

ACO heelsafe grating



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

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

ACO multi-slot 5 grating


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

Note: Surface electropolished

ACO hygienic slot cover

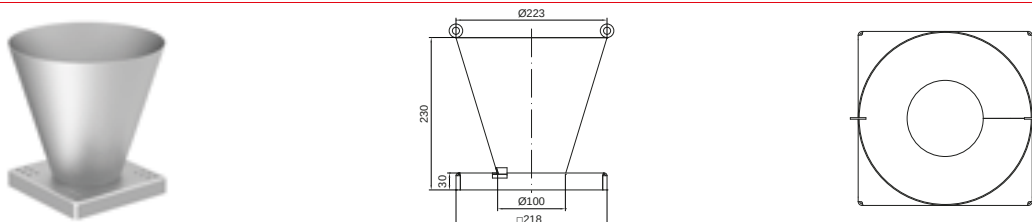

Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	445784
		1.4404	445785
M 125	Yes	1.4301	445786
		1.4404	445787

Note: Top surface sandblasted

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 73.

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.

Gratings for gully top 300 x 300 mm

Product information

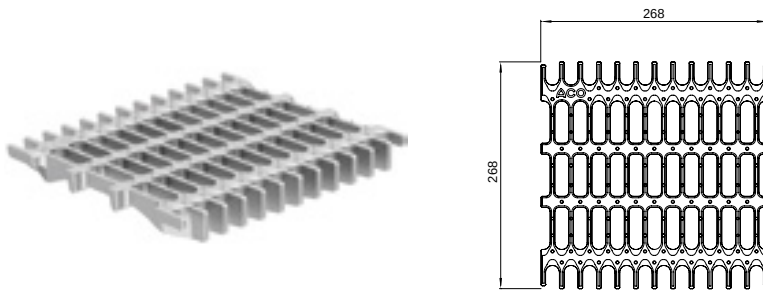
Variety of grate types is available depending on application and requested load class. For applications with high hygienic demands ladder grate or cast grate should be selected.

- Fits to stainless steel gully, fully compliant to EN 1253 and NSF International
- Gully top frame size: 300 x 300 mm
- Range of gratings suitable to load class L 15, R 50, M 125 or N 250 (EN 1253)
- Slip resistant solution available

HygieneFirst features

- 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 pickled and passivated

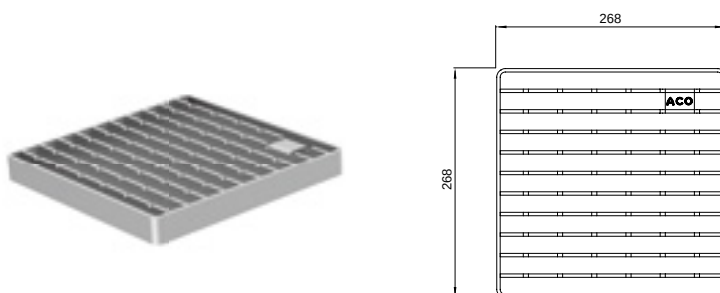
ACO hygienic cast grating



Load class	Slip resistant	Material	Item number
M 125	Yes	1.4301	416944

Note: Surface electropolished

ACO hygienic ladder grating



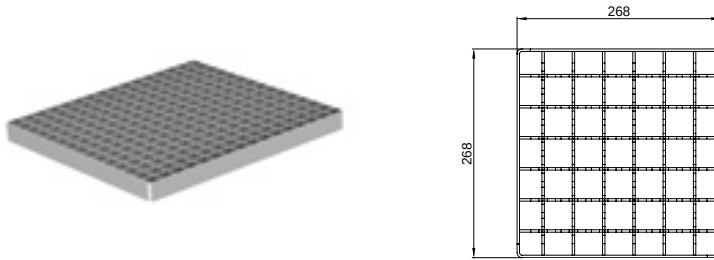
Load class	Slip resistant	Material	Item number
R 50	Yes	1.4301	416916
		1.4404	416917
M 125	Yes	1.4301	408037
		1.4404	408137
N 250	No	1.4301	408045
		1.4404	408145

Note: Surface electropolished

Gratings

Gratings for gully top 300 x 300 mm

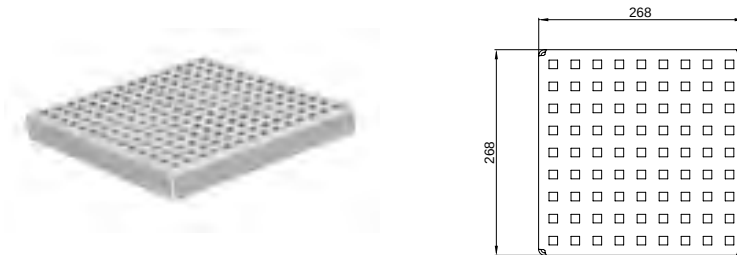
ACO mesh grating



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

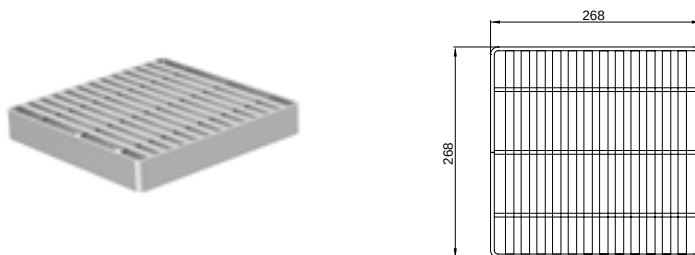
Note: Surface electropolished

ACO quadrato grating



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

ACO heelsafe grating



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

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

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

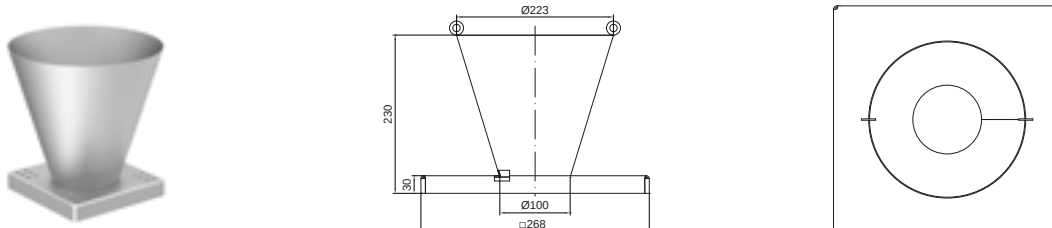
ACO odour proof gully cover



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 74.

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.

Gratings for vinyl top ø170

Product information

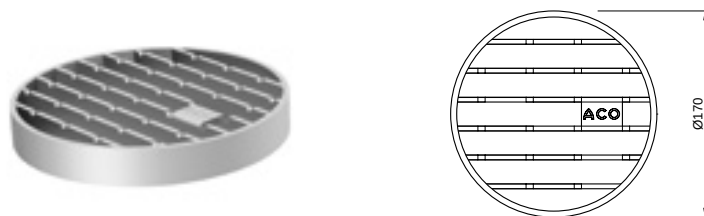
Variety of grate types is available depending on application and requested load class. For applications with high hygienic demands ladder grate or cast grate should be selected.

HygieneFirst features

- 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 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

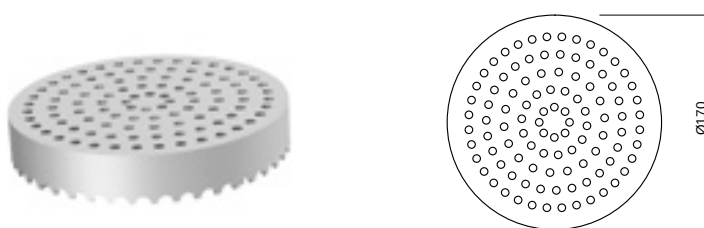
ACO ladder grating



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 *

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

ACO odour proof gully cover

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

Gratings for vinyl top ø222

Product information

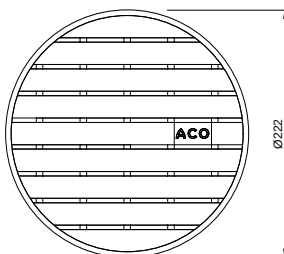
Variety of grate types is available depending on application and requested load class. For applications with high hygienic demands ladder grate or cast grate should be selected.

- 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

HygieneFirst features

- 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 pickled and passivated

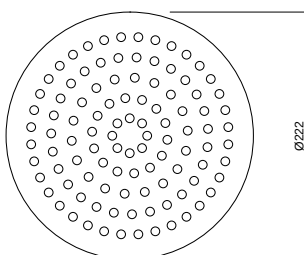
ACO ladder grating



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

Note: Surface electropolished

ACO perforated grating



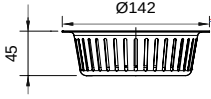
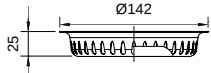
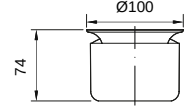
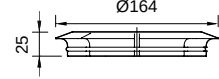
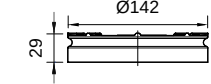
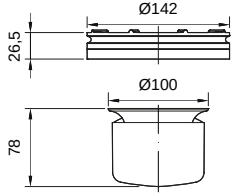
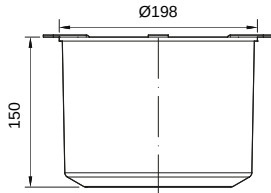
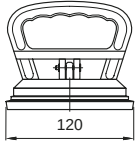
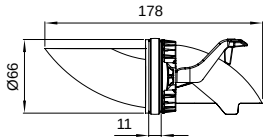
Load class	Slip resistant	Material	Item number
L 15	No	1.4301	97153 *
		1.4404	97390 *

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

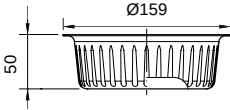
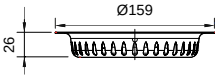
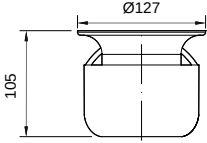
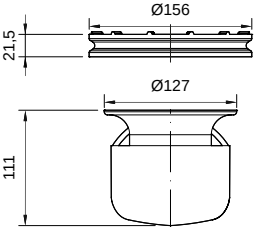
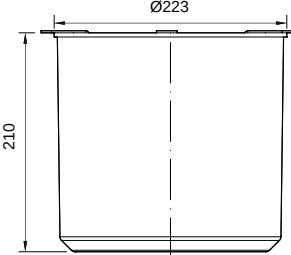
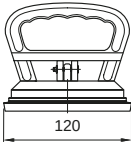
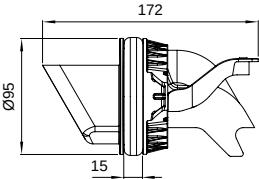
ACO odour proof gully cover

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

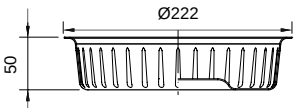
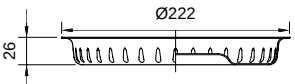
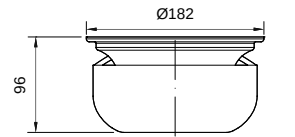
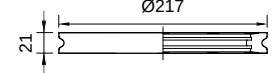
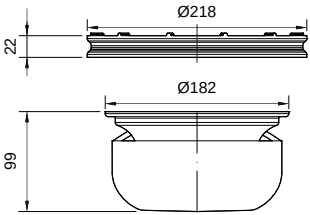
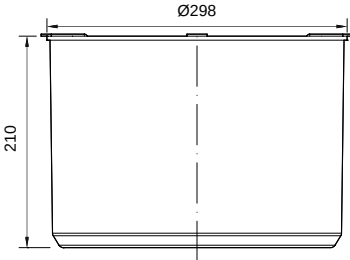
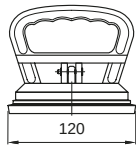
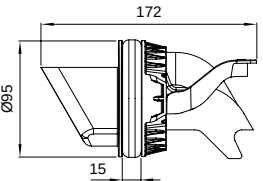
Accessories for ACO hygienic gully 142

	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	416900
			1.4404	416901
	ACO silt basket ■ Stainless steel ■ 0,3 litre capacity	■ ACO hygienic gully 142 - Fixed height ☐ Vertical or horizontal	1.4301	416902
			1.4404	416903
	ACO hygienic foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO hygienic gully 142 ☐ Fixed height ☐ Telescopic	1.4301	414741
			1.4404	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

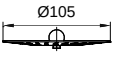
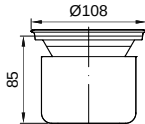
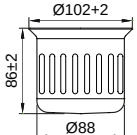
Accessories for ACO hygienic gully 157

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

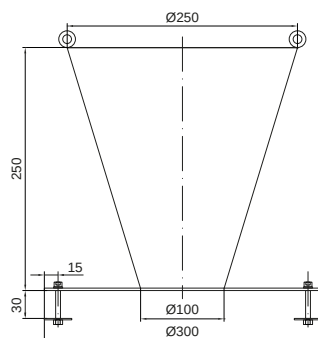
Accessories for ACO hygienic gully 218

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

Accessories for ACO gully EG150

	Description	Used with	Material	Item number
	Sieve (for outlet 110 mm) ■ Stainless steel	■ ACO slot channel 20 ■ ACO modular box channel 125 ■ ACO modular box channel 200 ■ ACO modular slot channel 20	1.4301	97235
			1.4404	97285
	Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO slot channel 20 ■ ACO modular box channel 125 ■ ACO modular box channel 200 ■ ACO modular slot channel 20	1.4301	97217
			1.4404	97267
	Silt basket ■ Stainless steel	■ 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	409190
			1.4404	409189

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]
øD	Vertical	A = 135 [mm]
75		1.4
110		1.6

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

ACO hygienic gully 142 – telescopic

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

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

ACO hygienic gully 157 – fixed height

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

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

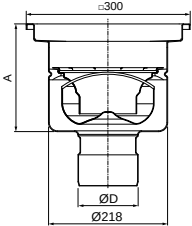
ACO hygienic gully 157 – telescopic

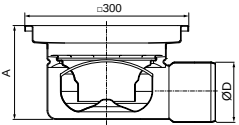
Outlet diameter	Outlet position	Flow rate [l/s]				
øD	Vertical	A = 65 [mm]	A = 91 [mm]	A = 125 [mm]	A = 153 [mm]	A = 180 [mm]
75		2.7	3.0	3.0	3.1	3.3
110		3.5	4.0	4.1	4.2	4.4

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

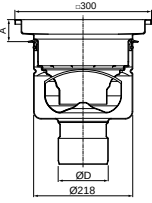
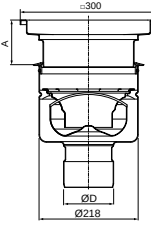
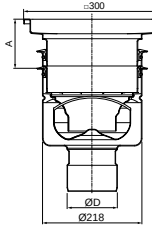
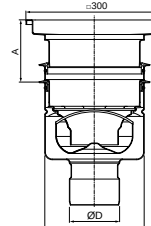
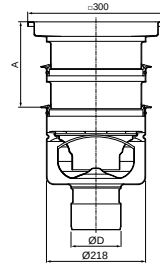
Flow rates and Construction heights

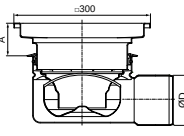
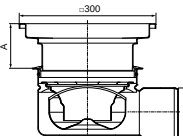
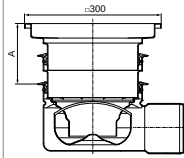
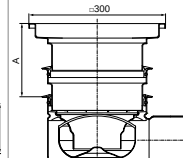
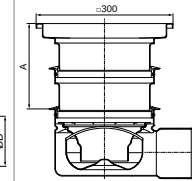
ACO hygienic gully 218 – fixed height

		
Outlet diameter	Outlet position	Flow rate [l/s]
ØD	Vertical	A = 200 [mm]
110		5.0
160		5.0

		
Outlet diameter	Outlet position	Flow rate [l/s]
ØD	Horizontal	A = 177 [mm]
110		4.4

ACO hygienic gully 218 – telescopic

						
Outlet diameter	Outlet position	Flow rate [l/s]				
ØD	Vertical	A = 65 [mm]	A = 91 [mm]	A = 125 [mm]	A = 153 [mm]	A = 180 [mm]
110		5.0	5.5	5.6	5.8	6.2
160		5.0	5.5	5.6	5.8	6.2

						
Outlet diameter	Outlet position	Flow rate [l/s]				
ØD	Horizontal	A = 72 [mm]	A = 98 [mm]	A = 132 [mm]	A = 156 [mm]	A = 187 [mm]
110		4.4	4.6	4.8	4.9	5.4

Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



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Hygienic design

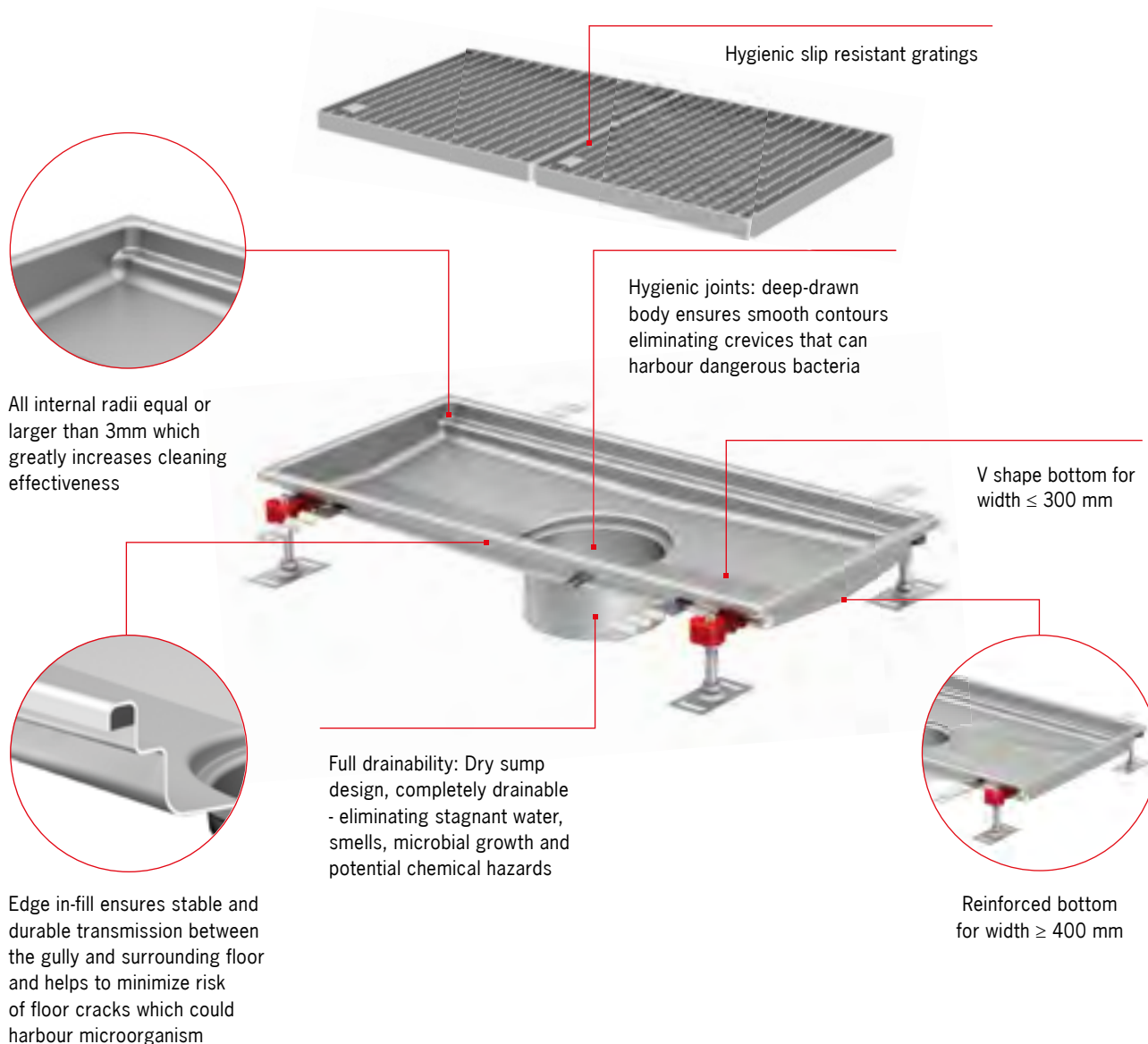
ACO offers sustainable, integrated drainage systems which are designed to protect your business, the environment and ultimately public health. Our aim is to constantly improve every aspect of safety, hygiene and functional performance.

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**

Introduction

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 103) 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 85 where you can find the overview.

ACO box channel customization

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

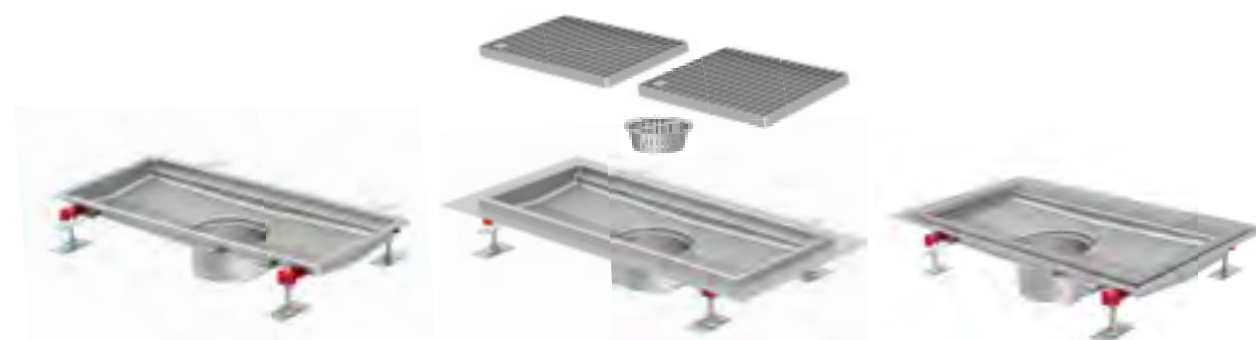


ACO hygienic box channel
Standard edge

ACO hygienic box channel
Extended edge

ACO vinyl box channel

ACO box channel - telescopic solution



ACO hygienic box channel
Standard edge

ACO hygienic box channel
Extended edge

ACO vinyl box channel



ACO hygienic gully
with accessories

ACO hygienic box channel - standard articles

Product information

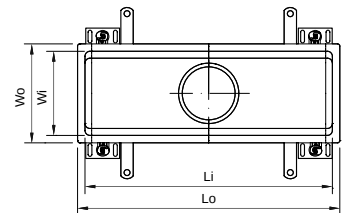
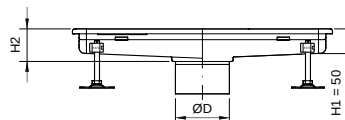
The dimensions of the ACO hygienic box channel for concrete, tiles and resin floor can be easily specified in respect of project requirements or easily chosen from predefined fixed dimensions.

HygieneFirst features

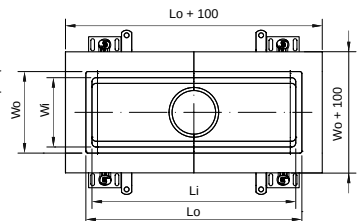
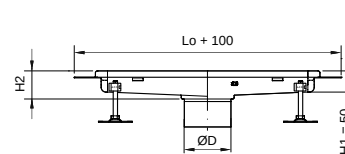
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
 - Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
 - Material thickness 1.5 mm
 - Fully removable and easily cleanable stainless steel foul air trap (FAT)
 - Rubber edge infill
 - Fully pickled 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 224 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

Standard edge



Extended edge



Channel dimensions				H2 [mm]	øD [mm]	Gully	Material	Standard edge	Extended edge
Wo [mm]	Wi [mm]	Lo [mm]	Li [mm]					Item number	Item number
200	170	530	500	60	125	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				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
		2030	2000				1.4301	416589	416685
		2030	2000				1.4404	416607	416703

Order information

Channel dimensions						Gully	Material	Standard edge	Extended edge					
Wo [mm]	Wi [mm]	Lo [mm]	Li [mm]	H2 [mm]	øD [mm]			Item number	Item number					
200	170	530	500	60	142	ACO hygienic gully 157	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				1.4404	416610	416706					
		1230	1200				1.4301	416593	416689					
		1230	1200				1.4404	416611	416707					
		1530	1500				1.4301	416594	416690					
		1530	1500				1.4404	416612	416708					
		2030	2000				1.4301	416595	416691					
		2030	2000				1.4404	416613	416709					
		300	270				330	300	55	142	ACO hygienic gully 157	1.4301	416614	416710
							330	300	1.4404			416628	416724	
630	600			1.4301	416615	416711								
630	600			1.4404	416629	416725								
1030	1000			1.4301	416616	416712								
1030	1000			1.4404	416630	416726								
1530	1500			1.4301	416617	416713								
1530	1500			1.4404	416631	416727								
2030	2000			1.4301	416618	416714								
2030	2000			1.4404	416632	416728								
3030	3000			1.4301	416619	416715								
3030	3000			1.4404	416633	416729								
4030	4000			1.4301	416620	416716								
4030	4000			1.4404	416634	416730								
300	270			330	300	55	200	ACO hygienic gully 218	1.4301			416621	416717	
				330	300	1.4404			416635			416731		
		630	600	1.4301	416622	416718								
		630	600	1.4404	416636	416732								
		1030	1000	1.4301	416623	416719								
		1030	1000	1.4404	416637	416733								
		1530	1500	1.4301	416624	416720								
		1530	1500	1.4404	416638	416734								
		2030	2000	1.4301	416625	416721								
		2030	2000	1.4404	416639	416735								
		3030	3000	1.4301	416626	416722								
		3030	3000	1.4404	416640	416736								
		4030	4000	1.4301	416627	416723								
		4030	4000	1.4404	416641	416737								
		400	370	430	400	60			142	ACO hygienic gully 157	1.4301	416642	416738	
				430	400						1.4404	416648	416744	
630	600			1.4301	416643		416739							
630	600			1.4404	416649		416745							
830	800			1.4301	416644		416740							
830	800			1.4404	416650		416746							
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					

Wo [mm]	Wi [mm]	Channel dimensions		H2 [mm]	øD [mm]	Gully	Material	Standard edge	Extended edge
		Lo [mm]	Li [mm]					Item number	Item number
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
							1.4404	416673	416769

ACO hygienic box channel - semi-standard

Product information

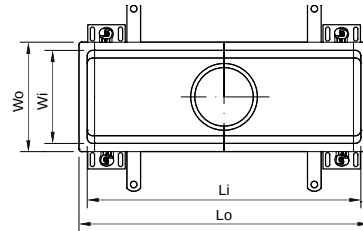
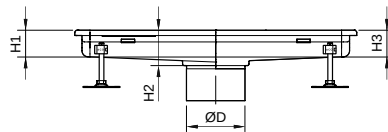
The dimensions of the ACO hygienic box channel for concrete, tiles and resin floor can be easily specified in respect of project requirements.

HygieneFirst features

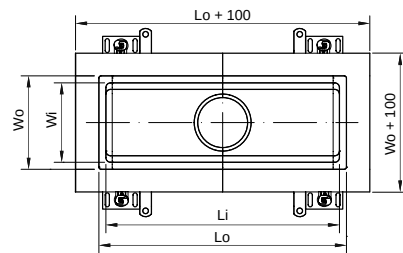
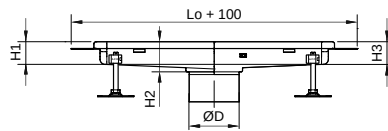
- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully removable and easily cleanable stainless steel foul air trap (FAT)
- Rubber edge infill
- Fully pickled and passivated
- Sectional slope 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 224 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

Order information

Standard edge



Extended edge



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

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

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

ACO vinyl box channel - standard articles

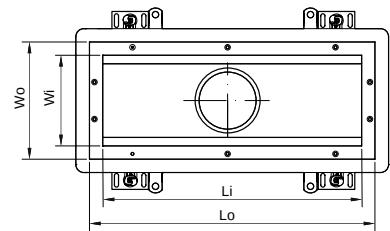
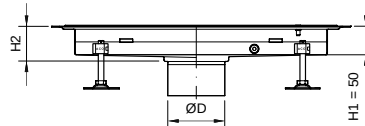
Product information

The dimensions of the ACO vinyl box channel can be specified in respect of project requirements or easily chosen from predefined fixed dimensions.

- 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
- Easy and secure telescopic connection with gully
- Adjustable EasyFix levelling feet 60-110 mm
- Anchors for fixing in concrete
- Protective cover available. See page 224 for more details

Order information

Vinyl edge



Wo [mm]	Wi [mm]	Channel dimensions		H2 [mm]	øD [mm]	Gully	Material	Vinyl edge
		Lo [mm]	Li [mm]					Item number
220	170	550	500	60	125	ACO hygienic gully 142	1.4301	413358
		550	500				1.4404	413376
		850	800				1.4301	413359
		850	800				1.4404	413377
		1050	1000				1.4301	413360
		1050	1000				1.4404	413378
		1250	1200				1.4301	413361
		1250	1200				1.4404	413379
		1550	1500				1.4301	413362
		1550	1500				1.4404	413380
		2050	2000				1.4301	413363
		2050	2000				1.4404	413381
220	170	550	500	60	142	ACO hygienic gully 157	1.4301	413364
		550	500				1.4404	413382
		850	800				1.4301	413365
		850	800				1.4404	413383
		1050	1000				1.4301	413366
		1050	1000				1.4404	413384
		1250	1200				1.4301	413367
		1250	1200				1.4404	413385
		1550	1500				1.4301	413368
		1550	1500				1.4404	413386
		2050	2000				1.4301	413369
		2050	2000				1.4404	413387

ACO box channel
ACO vinyl box channel - standard articles

Channel dimensions						Gully	Material	Vinyl edge
Wo [mm]	Wi [mm]	Lo [mm]	Li [mm]	H2 [mm]	øD [mm]			Item number
320	270	350	300	60	142	ACO hygienic gully 157	1.4301	413388
		350	300				1.4404	413402
		650	600				1.4301	413389
		650	600				1.4404	413403
		1050	1000				1.4301	413390
		1050	1000				1.4404	413404
		1550	1500				1.4301	413391
		1550	1500				1.4404	413405
		2050	2000				1.4301	413392
		2050	2000				1.4404	413406
		3050	3000	1.4301			413393	
		3050	3000	1.4404			413407	
		4050	4000	1.4301			413394	
		4050	4000	1.4404			413408	
		320	270	350			300	60
350	300			1.4404	413409			
650	600			1.4301	413396			
650	600			1.4404	413410			
1050	1000			1.4301	413397			
1050	1000			1.4404	413411			
1550	1500			1.4301	413398			
1550	1500			1.4404	413412			
2050	2000			1.4301	413399			
2050	2000			1.4404	413413			
3050	3000			1.4301	413400			
3050	3000			1.4404	413414			
4050	4000			1.4301	413401			
4050	4000			1.4404	413415			
420	370			450	400	60	142	ACO hygienic gully 157
		450	400	1.4404	413422			
		650	600	1.4301	413417			
		650	600	1.4404	413423			
		850	800	1.4301	413418			
		850	800	1.4404	413424			
420	370	450	400	60	200	ACO hygienic gully 218	1.4301	413419
		450	400				1.4404	413425
		650	600				1.4301	413420
		650	600				1.4404	413426
		850	800				1.4301	413421
		850	800				1.4404	413427
520	470	530	500	65	142	ACO hygienic gully 157	1.4301	413428
		530	500				1.4404	413434
		830	800				1.4301	413429
		830	800				1.4404	413435
		1030	1000				1.4301	413430
		1030	1000				1.4404	413436
520	470	550	500	65	200	ACO hygienic gully 218	1.4301	413431
		550	500				1.4404	413437
		850	800				1.4301	413432
		850	800				1.4404	413438
		1050	1000				1.4301	413433
		1050	1000				1.4404	413439
620	570	650	600	70	200	ACO hygienic gully 218	1.4301	413440
		650	600				1.4404	413443
		950	900				1.4301	413441
		950	900				1.4404	413444
		1250	1200				1.4301	413442
		1250	1200				1.4404	413445
820	770	850	800	80	200	ACO hygienic gully 218	1.4301	413446
							1.4404	413447

ACO vinyl box channel - semi-standard

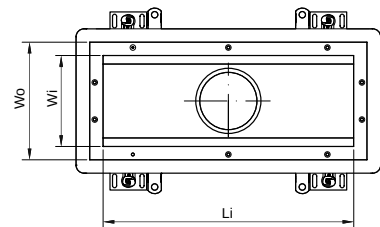
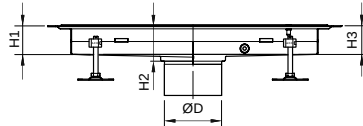
Product information

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

- 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 224 for more details

Order information

Vinyl edge



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

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

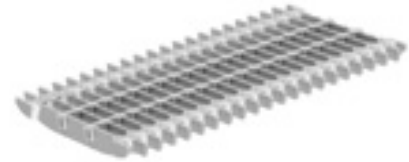
In case of requirements one piece channel, channels have to be welded on site. Please contact our Sales/Technical department.

ACO hygienic cast grating

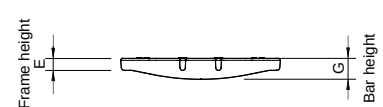
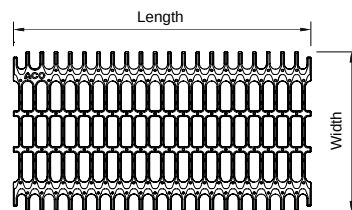
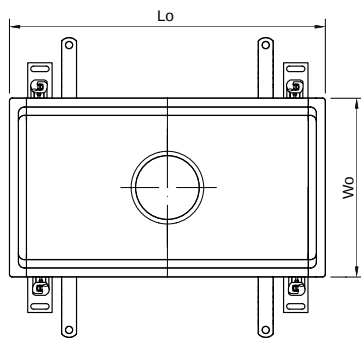
Product information

HygieneFirst features

- Hygienic design following EN 1672, EN ISO 14159 and EHEDG document No. 8, 13 and 44
- Available in 1.4301 (304) grade of stainless steel
- Fully pickled and passivated
- Electropolished surface
- Frameless design for optimum drainability and cleanliness
- Tested and certified according to EN 1253
- Range of gratings suitable for load class M 125 (EN 1253)
- Slip resistant
 - Low potential for slip according to BS 7976-2,
 - R13 according to DIN 51130



Order information - Load class M 125



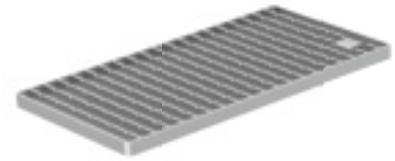
Channel dimension		Grating dimension				Material	Item number	Quantity to fill channel
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]			
200	530	20	30	168	499	1.4301	416947	1
	830	20	30	168	398	1.4301	416948	2
	1030	20	30	168	499	1.4301	416947	2
	1230	20	30	168	398	1.4301	416948	3
	1530	20	30	168	499	1.4301	416947	3
	2030	20	30	168	499	1.4301	416947	4
300	330	20	30	268	298	1.4301	416946	1
	630	20	30	268	298	1.4301	416946	2
	1030	20	30	268	499	1.4301	416945	2
	1530	20	30	268	499	1.4301	416945	3
	2030	20	30	268	499	1.4301	416945	4
	3030	20	30	268	499	1.4301	416945	6
	4030	20	30	268	499	1.4301	416945	8

ACO hygienic ladder grating

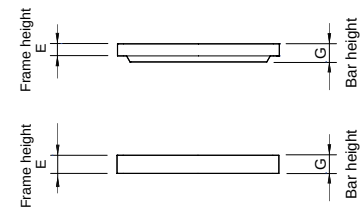
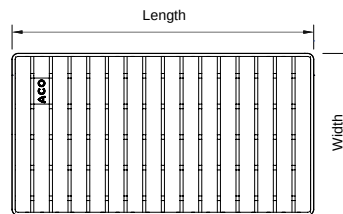
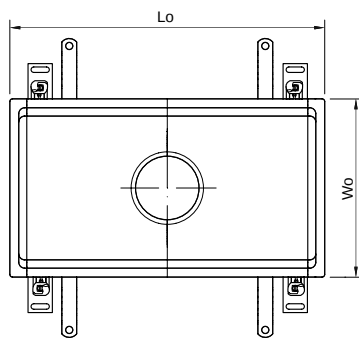
Product information

HygieneFirst features

- 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)
- Tested and certified according to NSF International
- High flow capacity
- Rounded corners
- Slip resistant
 - Low potential for slip according to BS 7976-2,
 - R11 according to DIN 51130



Order information - Load class R 50



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
						1.4404	416803	
	830	20	20	168	398	1.4301	416808	2
						1.4404	416809	
	1030	20	20	168	999	1.4301	445948	1
						1.4404	445949	
	1030	20	20	168	499	1.4301	416802	2
						1.4404	416803	
	1230	20	20	168	398	1.4301	416808	3
						1.4404	416809	
	1530	20	20	168	499	1.4301	416802	3
						1.4404	416803	
	2030	20	20	168	999	1.4301	445948	2
						1.4404	445949	
	2030	20	20	168	499	1.4301	416802	4
						1.4404	416803	

Order information - Load class R 50

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	330	20	20	268	298	1.4301	416812	1
						1.4404	416813	
	630	20	20	268	298	1.4301	416812	2
						1.4404	416813	
	1030	20	20	268	999	1.4301	445952	1
						1.4404	445953	
	1030	20	20	268	499	1.4301	416814	2
						1.4404	416815	
	1530	20	20	268	499	1.4301	416814	3
						1.4404	416815	
	2030	20	20	268	999	1.4301	445952	2
						1.4404	445953	
	2030	20	20	268	499	1.4301	416814	4
						1.4404	416815	
	3030	20	20	268	999	1.4301	445952	3
						1.4404	445953	
	3030	20	20	268	499	1.4301	416814	6
						1.4404	416815	
400	430	30	30	368	398	1.4301	416820	1
						1.4404	416821	
	630	30	30	368	598	1.4301	416822	1
						1.4404	416823	
	830	30	30	368	398	1.4301	416820	2
						1.4404	416821	
500	530	30	30	468	499	1.4301	416828	1
						1.4404	416829	
	830	30	30	468	398	1.4301	416830	2
						1.4404	416831	
	1030	30	30	468	499	1.4301	416828	2
						1.4404	416829	
600	630	30	30	568	298	1.4301	416838	2
						1.4404	416839	
	930	30	30	568	298	1.4301	416838	3
						1.4404	416839	
	1230	30	30	568	298	1.4301	416838	4
						1.4404	416839	
800	830	30	30	768	398	1.4301	416842	2
						1.4404	416843	

Order information - Load class M 125

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	30	168	499	1.4301	416804	1
						1.4404	416805	
	830	20	30	168	398	1.4301	416810	2
						1.4404	416811	
	1030	20	20	168	999	1.4301	445950	1
						1.4404	445951	
	1030	20	30	168	499	1.4301	416804	2
						1.4404	416805	
	1230	20	30	168	398	1.4301	416810	3
						1.4404	416811	
	1530	20	30	168	499	1.4301	416804	3
						1.4404	416805	
	2030	20	20	168	999	1.4301	445950	2
						1.4404	445951	
	2030	20	30	168	499	1.4301	416804	4
						1.4404	416805	
300	330	20	30	268	298	1.4301	416816	1
						1.4404	416817	
	630	20	30	268	298	1.4301	416816	2
						1.4404	416817	
	1030	20	30	268	499	1.4301	416818	2
						1.4404	416819	
	1030	20	20	268	999	1.4301	445954	1
						1.4404	445955	
	1530	20	30	268	499	1.4301	416818	3
						1.4404	416819	
	2030	20	20	268	999	1.4301	445954	2
						1.4404	445955	
	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	

Order information - Load class M 125

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]			
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	
	830	30	30	368	398	1.4301	416824	2
						1.4404	416825	
500	530	30	30	468	499	1.4301	416832	1
						1.4404	416833	
	830	30	30	468	398	1.4301	416834	2
						1.4404	416835	
	1030	30	30	468	499	1.4301	416832	2
						1.4404	416833	

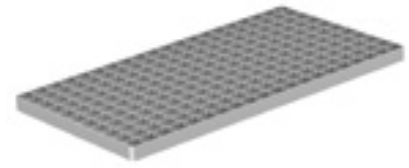
Order information - Load class N 250

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	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	
	1530	20	30	168	499	1.4301	416844	3
						1.4404	416845	
	2030	20	30	168	499	1.4301	416844	4
						1.4404	416845	
300	330	20	30	268	298	1.4301	416850	1
						1.4404	416851	
	630	20	30	268	298	1.4301	416850	2
						1.4404	416851	
	1030	20	30	268	499	1.4301	416848	2
						1.4404	416849	
	1530	20	30	268	499	1.4301	416848	3
						1.4404	416849	
	2030	20	30	268	499	1.4301	416848	4
						1.4404	416849	
	3030	20	30	268	499	1.4301	416848	6
						1.4404	416849	
	4030	20	30	268	499	1.4301	416848	8
						1.4404	416849	

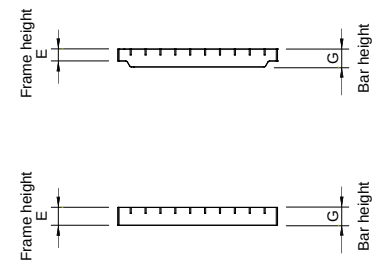
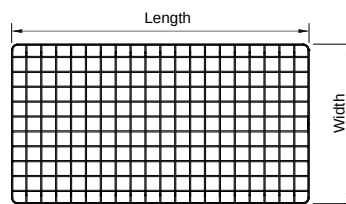
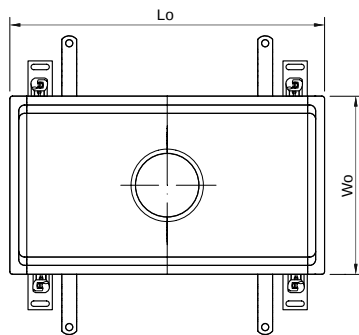
ACO mesh grating

Product information

- 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



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	30	168	499	1.4301	416860	1
	530	20	30	168	499	1.4404	416861	
	830	20	30	168	398	1.4301	416862	2
	830	20	30	168	398	1.4404	416863	
	1030	20	30	168	999	1.4301	413153	1
	1030	20	30	168	999	1.4404	445957	
	1030	20	30	168	499	1.4301	416860	2
	1030	20	30	168	499	1.4404	416861	
	1230	20	30	168	398	1.4301	416862	3
	1230	20	30	168	398	1.4404	416863	
	1530	20	30	168	499	1.4301	416860	3
	1530	20	30	168	499	1.4404	416861	
	2030	20	30	168	999	1.4301	413153	2
	2030	20	30	168	999	1.4404	445957	
	2030	20	30	168	499	1.4301	416860	4
	2030	20	30	168	499	1.4404	416861	

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	330	20	30	268	298	1.4301	416864	1
						1.4404	416865	
	630	20	30	268	298	1.4301	416864	2
						1.4404	416865	
	1030	20	30	268	999	1.4301	413154	1
						1.4404	445959	
	1030	20	30	268	499	1.4301	416866	2
						1.4404	416867	
	1530	20	30	268	499	1.4301	416866	3
						1.4404	416867	
	2030	20	30	268	999	1.4301	413154	2
						1.4404	445959	
	2030	20	30	268	499	1.4301	416866	4
						1.4404	416867	
	3030	20	30	268	999	1.4301	413154	3
						1.4404	445959	
	3030	20	30	268	499	1.4301	416866	6
						1.4404	416867	
	4030	20	30	268	999	1.4301	413154	4
						1.4404	445959	
	4030	20	30	268	499	1.4301	416866	8
						1.4404	416867	
400	430	30	30	368	398	1.4301	416868	1
						1.4404	416869	
	630	30	30	368	598	1.4301	416870	1
						1.4404	416871	
	830	30	30	368	398	1.4301	416868	2
						1.4404	416869	
500	530	30	30	468	499	1.4301	416872	1
						1.4404	416873	
	830	30	30	468	398	1.4301	416874	2
						1.4404	416875	
	1030	30	30	468	499	1.4301	416872	2
						1.4404	416873	
600	630	30	30	568	298	1.4301	416876	2
						1.4404	416877	
	930	30	30	568	298	1.4301	416876	3
						1.4404	416877	
	1230	30	30	568	298	1.4301	416876	4
						1.4404	416877	
800	830	30	30	768	398	1.4301	416878	2
						1.4404	416879	

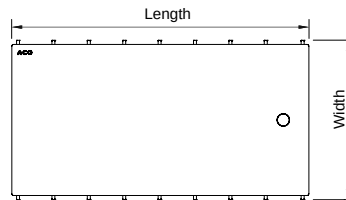
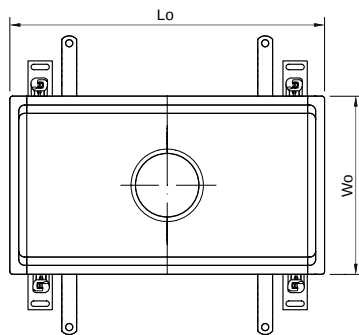
ACO hygienic slot cover

Product information

- 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



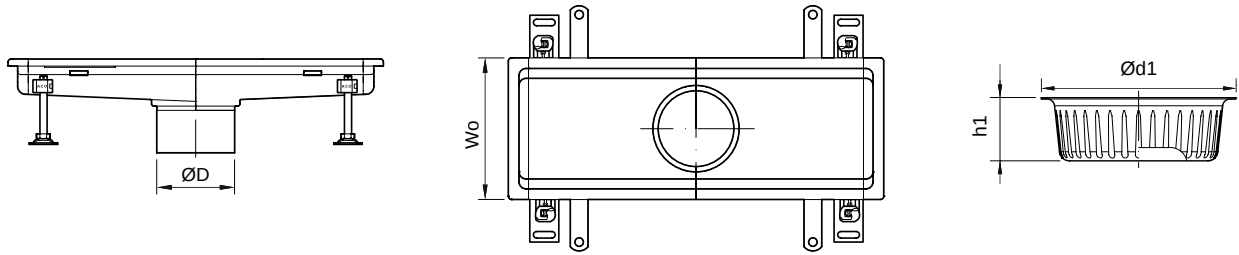
Channel dimension		Grating dimension				Material	Item number	Quantity to fill channel
Wo [mm]	Lo [mm]	Frame height E [mm]	Bar height G [mm]	Width [mm]	Length [mm]			
200	530	20	30	168	499	1.4301	445756	1
						1.4404	445757	
	830	20	30	168	398	1.4301	445762	2
						1.4404	445763	
	1030	20	30	168	499	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	
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	
	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	

Order information - Load class M 125

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	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	
	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	
	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	

Order information - Load class N 250

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	30	168	499	1.4301	445760	1
						1.4404	445761	
	830	20	30	168	398	1.4301	445766	2
						1.4404	445767	
	1030	20	30	168	499	1.4301	445760	2
						1.4404	445761	
	1230	20	30	168	398	1.4301	445766	3
						1.4404	445767	
	1530	20	30	168	499	1.4301	445760	3
						1.4404	445761	
	2030	20	30	168	499	1.4301	445760	4
						1.4404	445761	
300	330	20	30	268	298	1.4301	445778	1
						1.4404	445779	
	630	20	30	268	298	1.4301	445778	2
						1.4404	445779	
	1030	20	30	268	499	1.4301	445772	2
						1.4404	445773	
	1530	20	30	268	499	1.4301	445772	3
						1.4404	445773	
	2030	20	30	268	499	1.4301	445772	4
						1.4404	445773	
	3030	20	30	268	499	1.4301	445772	6
						1.4404	445773	

Accessories for ACO box channels
Silt baskets for ACO hygienic box channel


Channel dimension		Direction of gully outlet	Silt basket dimension		Capacity [l]	Material	Item number
Width W0 [mm]	Outlet ØD [mm]		Ød1 [mm]	h1 [mm]			
200, 300, 400, 500, 600, 800	125	vertical, horizontal	142	45	0.4	1.4301	416900
						1.4404	416901
200	142	vertical	142	45	0.4	1.4301	416900
						1.4404	416901
		horizontal	142	25	0.3	1.4301	416902
						1.4404	416903
	welded with ACO hygienic gully 142	vertical, horizontal	142	25	0.3	1.4301	416902
						1.4404	416903
300, 400, 500, 600, 800	142 or welded with ACO hygienic gully 157	vertical	159	50	0.6	1.4301	416904
						1.4404	416905
		horizontal	159	26	0.3	1.4301	416906
						1.4404	416907
300, 400, 500, 600, 800	200 or welded with ACO hygienic gully 218	vertical	222	50	1.4	1.4301	416908
						1.4404	416909
		horizontal	222	26	0.7	1.4301	416910
						1.4404	416911

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.

- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel, pickled and passivated
- 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 224 for more details

Instruction

- Please define channel dimensions by filling out required entry fields.
- For technical support, please contact customerservice@aco.cz
- For Industrial Drainage information, visit ACO Building Drainage web
- ☐ Yellow entry fields highlight hygienic design options
- ☐ White entry fields highlight non-hygienic design options

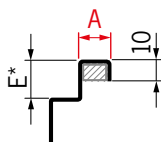
Step 1 - Material

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

Step 2 - Edge profile



☐ Standard edge



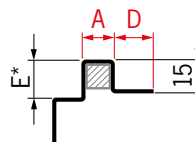
Edge infill type

- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

Edge width (A)

- ☐ 15 mm
- ☐ Custom: ** mm

☐ Extended edge



Edge infill type

- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

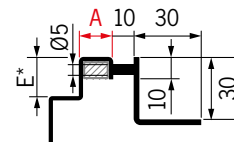
Edge width (A)

- ☐ 15 mm
- ☐ Custom: ** mm

Flange length (D)

- ☐ 50 mm
- ☐ Custom: mm

☐ L-profile edge



Edge infill type

- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

Edge width (A)

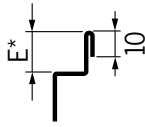
- ☐ 15 mm
- ☐ Custom: ** mm

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

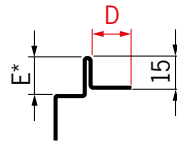
** For hygienic solution, check with technical support

Step 2 - Edge profile

Folded edge



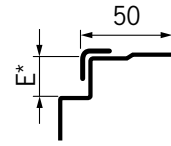
Folded edge with flange



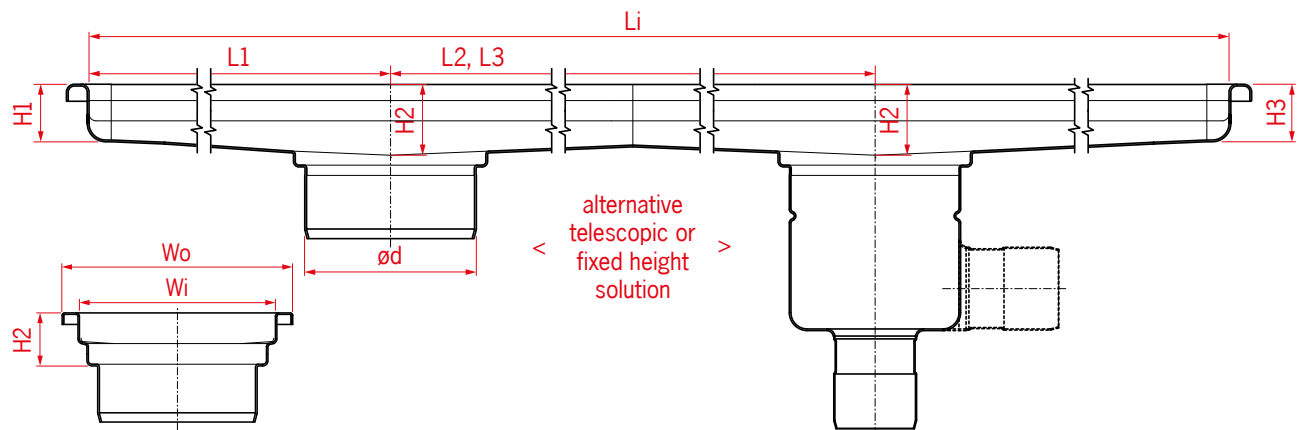
Flange length (D)

- ☐ 50 mm
- ☐ Custom: mm

Vinyl edge



Step 3 - Channel dimensions



Width Overall (Wo) / Internal (Wi)

- ☐ 200 mm / 170 mm
(valid for edge width 15 mm)
- ☐ 300 mm / 270 mm
(valid for edge width 15 mm)
- ☐ 400 mm / 370 mm
(valid for edge width 15 mm)
- ☐ 500 mm / 470 mm
(valid for edge width 15 mm)
- ☐ 600 mm / 570 mm
(valid for edge width 15 mm)
- ☐ 800 mm / 770 mm
(valid for edge width 15 mm)
- ☐ Custom:
(For channel with standard edge width of 15 mm subtract 30 mm from overall width as value for internal width)
- Wo: mm
- Wi: mm

Channel height at outlet (H2)

mm

Slope

- ☐ No
- ☐ Yes - 1%
- ☐ Yes - height defined
(If you require values below 50 mm, please contact technical support)
- H1: mm
- H3: mm

Channel Length (Li)

mm

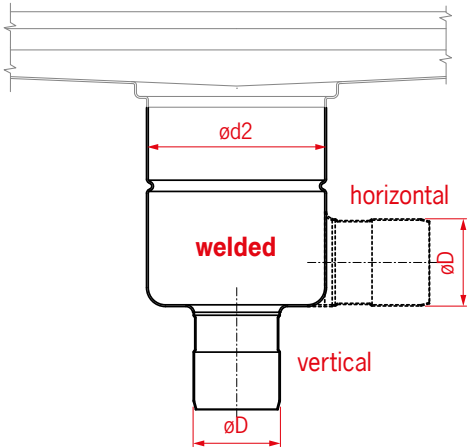
Number of outlets and their spacing (L1, L2, L3, L4)

- ☐ L1: mm
- ☐ L2: mm
- ☐ L3: mm
- ☐ L4: mm

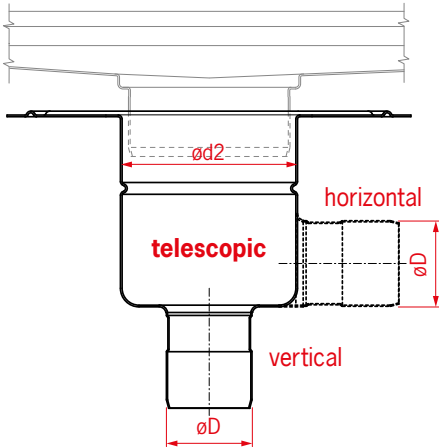
For higher number of outlets, please contact technical support

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)

☐ **Location flange**
(For telescopic gully only)



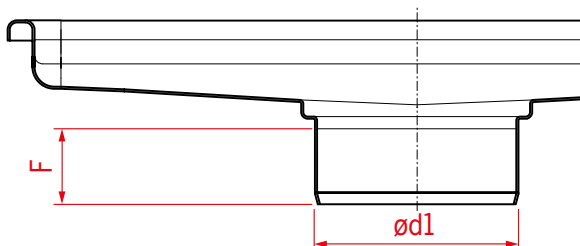
☐ **Bonding flange**
(For telescopic gully only)



☐ **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



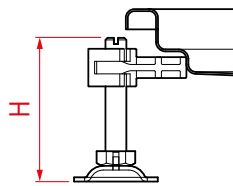
Raising piece included

- ☐ Yes
- ☐ 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
- ☐ 250 mm
- ☐ 300 mm



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

ACO Protective covers included

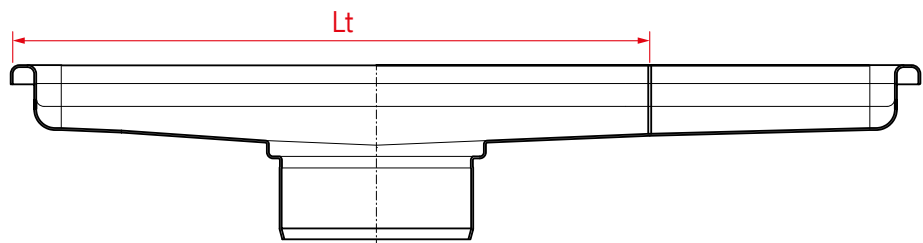
- ☐ Yes
- ☐ No



Step 6 - Delivery requirements

Maximum transport length (Lt)

- ☐ 6000 mm (standard)
- ☐ 3000 mm
- ☐ 2000 mm



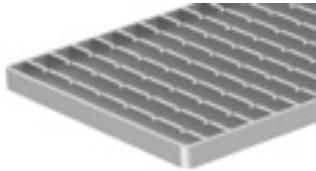
Transport connection type

- ☐ Welded on site
- ☐ Bolted on site

Step 7 - Gratings



ACO hygienic ladder grating



Slip resistant



Plain

Load class



R 50
(valid up to $W_o = 800$ mm)



M 125
(valid up to $W_o = 500$ mm)



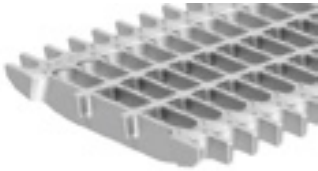
N 250
(valid up to $W_o = 300$ mm)



P 400
(Custom)



ACO hygienic cast grating



Slip resistant

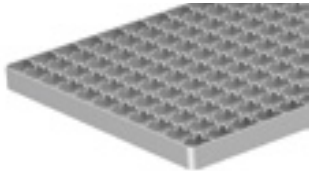
Load class



M 125 (max. $W_o = 300$)
(valid up to $W_o = 300$ mm)



ACO mesh grating



Slip resistant



Plain

Load class



L 15
(valid up to $W_o = 1000$ mm)



R 50 (max. $W_o = 300$)
(valid up to $W_o = 500$ mm)



M 125 (max. $W_o = 300$)
(valid up to $W_o = 300$ mm)



ACO hygienic slot cover



Slip resistant

Load class



R 50
(valid up to $W_o = 300$ mm)



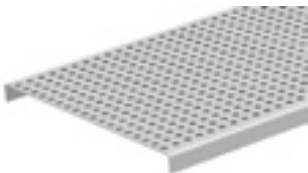
M 125
(valid up to $W_o = 300$ mm)



N 250
(valid up to $W_o = 300$ mm)



ACO perforated grating



Plain

Load class



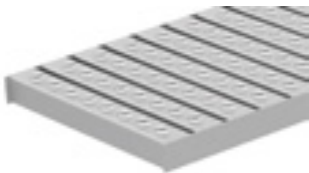
L 15
(valid up to $W_o = 300$ mm)



R 50 (max. $W_o = 300$)
(valid up to $W_o = 300$ mm)



ACO multi-slot 5 grating



Slip resistant

Load class



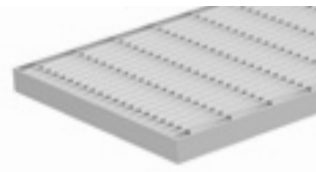
L 15
(valid up to $W_o = 300$ mm)



R 50 (max. $W_o = 300$)
(valid up to $W_o = 300$ mm)



ACO heelsafe grating



Plain

Load class



L 15 (max. $W_o = 300$)
(valid up to $W_o = 300$ mm)



Without gratings

Height of gratings (E)



20 mm



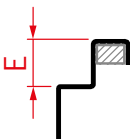
25 mm



30 mm



40 mm



Introduction

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 111) 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.

ACO slot channel system overview

ACO slot channel - fixed height solution



ACO slot channel - telescopic solution



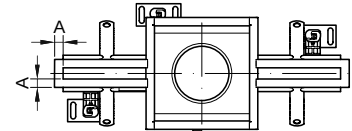
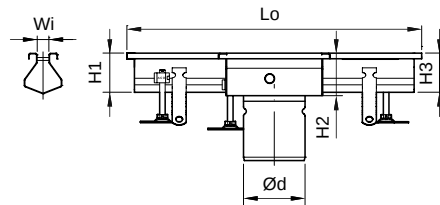
ACO slot channel - semi-standard

Product information

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

- 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
- 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 224 for more details

Order information



External (overall) width Wi [mm]	Dimension of edge A [mm]	Length of channel Lo	Height at outlet of channel H2	Height at end of channel 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.

- 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
- 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 224 for more details

Instructions

- Please define channel design by filling out required entry fields
- For technical support, please contact customerservice@aco.cz
- For Industrial Drainage information, visit [ACO Building Drainage](#) web

Hygienic design principles don't apply to slot channels.

Step 1 - Material

☐ Stainless steel grade 1.4301 (AISI 304)

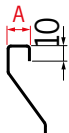
☐ Stainless steel grade 1.4404 (AISI 316L)

Step 2 - Edge profile



Detail of the Edge profile

☐ Standard edge



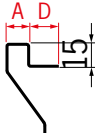
Edge infill type

- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

Edge width (A)

- ☐ 15 mm
- ☐ 25 mm

☐ Extended edge



Edge infill type

- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

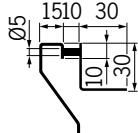
Edge width (A)

- ☐ 15 mm
- ☐ 25 mm

Flange length (D)

- ☐ 50 mm
- ☐ Custom: mm

☐ L-profile edge

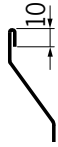


Edge infill type

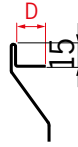
- ☐ Rubber edge infill
- ☐ Steel edge infill
- ☐ No edge infill

Step 2 - Edge profile

☐ ☐ ☐ **Folded edge**



☐ ☐ ☐ **Folded edge with flange**



☐ ☐ ☐ **Vinyl edge**

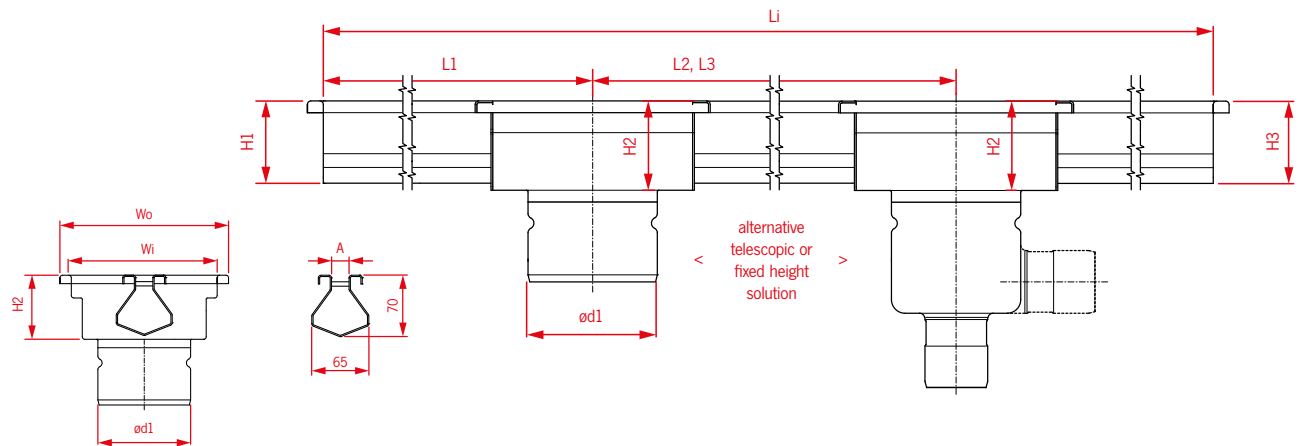


Flange length (D)

☐ ☐ ☐ 50 mm

☐ ☐ ☐ Custom: mm

Step 3 - Channel dimensions



Gully top dimensions Gully top (Wo) / Outlet (Ød2)

- ☐ 200 x 200 mm / 75 mm
(valid for edge width 15 mm)
- ☐ 200 x 200 mm / 110 mm
(valid for edge width 15 mm)
- ☐ 200 x 200 mm / 125 mm
(valid for edge width 15 mm)
- ☐ 250 x 250 mm / 142 mm
(valid for edge width 15 mm)
- ☐ 300 x 300 mm / 200 mm
(valid for edge width 15 mm)
- ☐ Custom:
(For gully top with standard edge width of 15 mm subtract 30 mm from overall width as value for internal width)
- Wo: mm
- Wi: mm

Slot width (A)

- ☐ 8 mm
- ☐ 20 mm

Channel height at outlet (H2)

mm

Slope

- ☐ ☐ ☐ No
- ☐ Yes - 1%
- ☐ Yes - height defined
(If you require values below 50 mm, please contact technical support)
- H1: mm
- H3: mm

Channel Length (Li)

mm

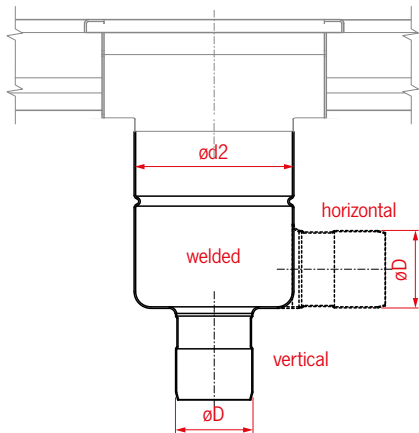
Number of outlets and their spacing (L1, L2, L3, L4)

- ☐ L1: mm
- ☐ L2: mm
- ☐ L3: mm
- ☐ L4: mm

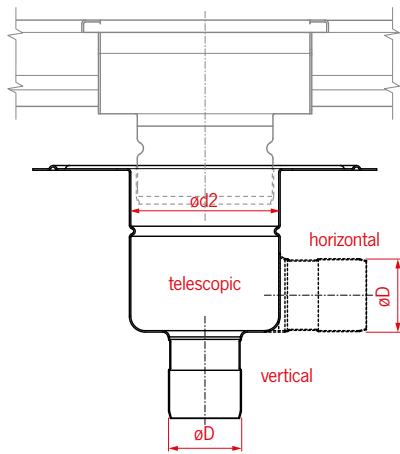
For higher number of outlets, please contact technical support

Step 4 - Gully construction

☐ **Welded gully**



☐ **Telescopic gully**



Outlet orientation and dimensions

Vertical outlet ($\varnothing d2$ / $\varnothing D$)

- ☐ 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 ($\varnothing d2$ / $\varnothing D$)

- ☐ 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)



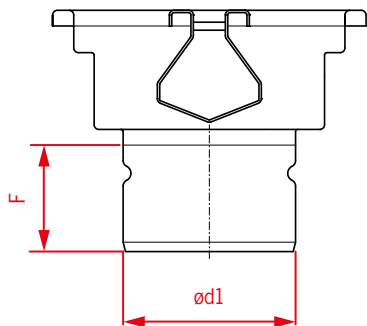
☐ **Bonding flange** (For telescopic gully only)



☐ **Mechanical clamping flange** (For telescopic gully only)



☐ **Without gully (outlet pipe only)**



Outlet diameter ($\varnothing d1$)

- ☐ 75 mm
(valid for gully top 200 x 200 mm)
- ☐ 110 mm
(valid for gully top 200 x 200 mm)
- ☐ 125 mm
(valid for gully top 200 x 200 mm)
- ☐ 142 mm
(valid for gully top 250 x 250 mm)
- ☐ 200 mm
(valid for gully top 300 x 300 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



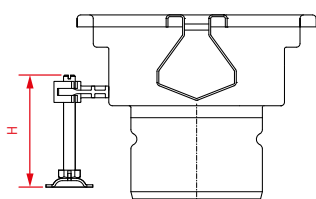
Raising piece included

- ☐ Yes ☐ 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

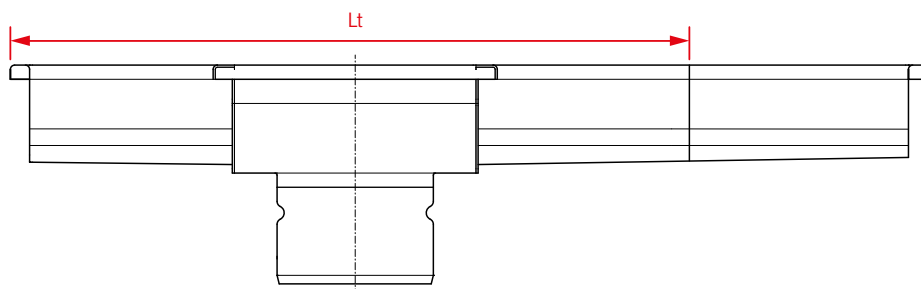
- ☐ Yes
☐ No



Step 6 - Delivery requirements

Maximum transport length (Lt)

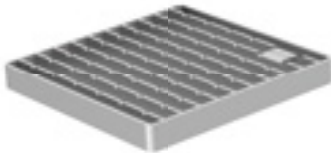
- ☐ 6000 mm (standard)
☐ 3000 mm
☐ 2000 mm



Step 7 - Gratings



ACO hygienic ladder grating



Slip
resistant



Plain

Load class



R 50
(valid up to $W_o = 300$ mm)



M 125
(valid up to $W_o = 300$ mm)



N 250
(valid up to $W_o = 300$ mm)



ACO hygienic cast grating



Slip resistant

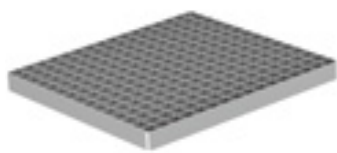
Load class



M 125
(valid up to $W_o = 300$ mm)



ACO mesh grating



Slip
resistant



Plain

Load class



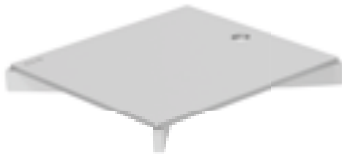
L 15
(valid up to $W_o = 300$ mm)



R 50
(valid up to $W_o = 300$ mm)



ACO hygienic slot cover



Slip resistant

Load class



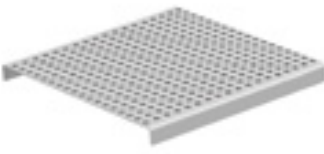
R 50
(valid up to $W_o = 300$ mm)



M 125
(valid up to $W_o = 300$ mm)



ACO perforated grating



Plain

Load class



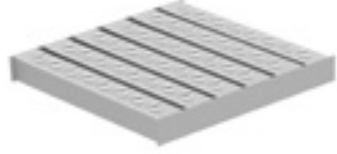
L 15
(valid up to $W_o = 300$ mm)



R 50
(valid up to $W_o = 300$ mm)



ACO multi-slot 5 grating



Slip resistant

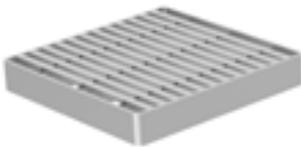
Load class



L 15
(valid up to $W_o = 300$ mm)



ACO heelsafe grating



Plain

Load class



L 15
(valid up to $W_o = 300$ mm)



Without gratings

Height of gratings (E)



20 mm



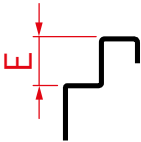
25 mm



30 mm



40 mm



Introduction

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

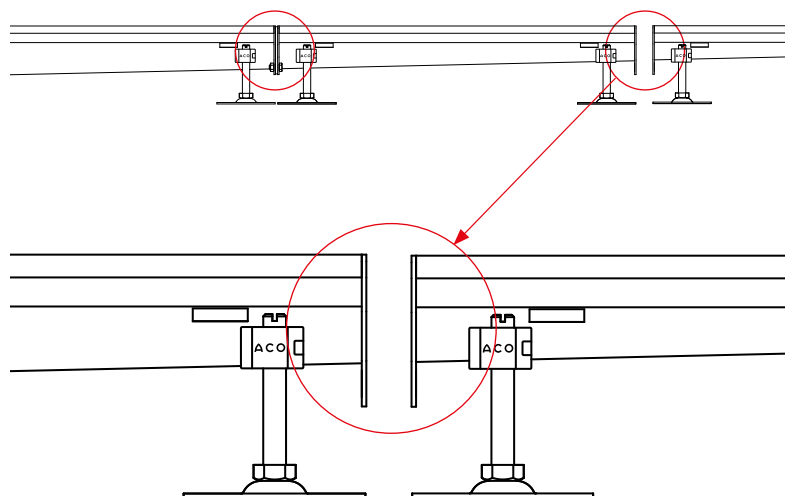
In addition, all ACO modular channels can be designed to a special length.

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

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

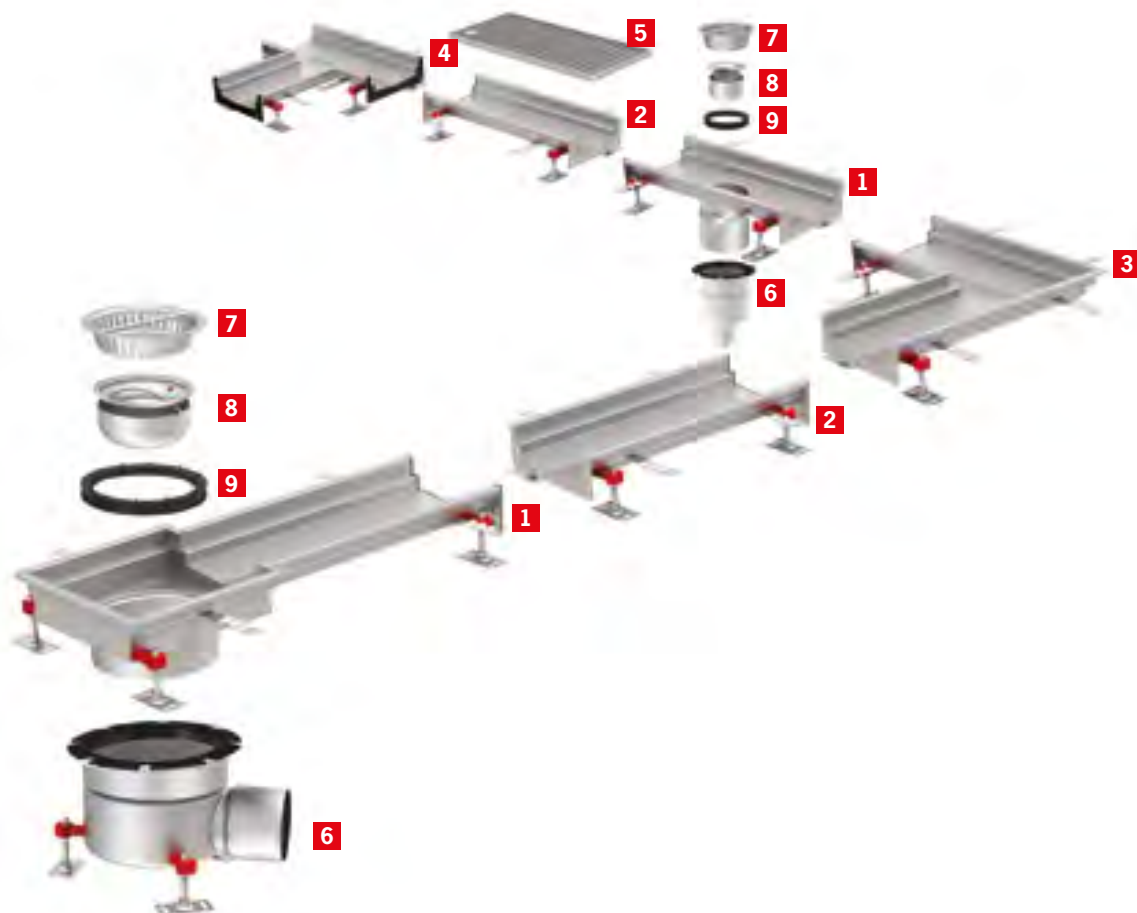


ACO modular slot channel 20



**ACO gully
with accessories**

ACO modular box channel system overview



ACO modular slot channel system overview



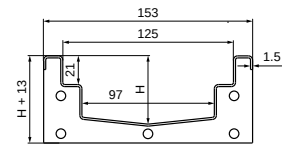
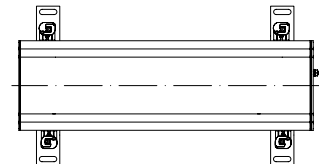
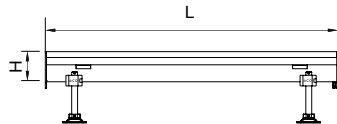
- | | |
|--|--------------------------------|
| 1 Outlet unit | 6 Gully |
| 2 Level invert and sloping invert channel | 7 Silt basket |
| 3 Corner unit | 8 Foul air trap |
| 4 Branch unit | 9 Foul air trap support |
| 5 Grating | |

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.

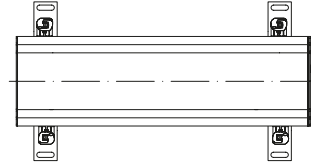
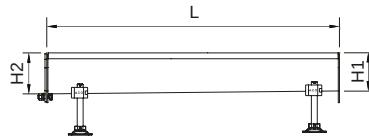
- Fully compliant to EN 1253
- Fully tested and classified to EN 1433
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Fully pickled and passivated
- Easy and secure telescopic connection with gully
- Cut on demand items available to minimize works on site
- Wide range of gratings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


Level invert channel


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
	110	105139	407227
	125	105140	407228
3000	50	105143	407229
	65	105144	407230
	80	105145	407231
	95	105146	407232
	110	105147	407233
	125	105148	407234

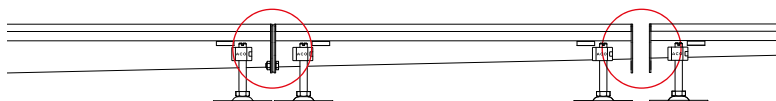
Note: Items are equipped with seal and connecting material on one side.

Sloping invert channel

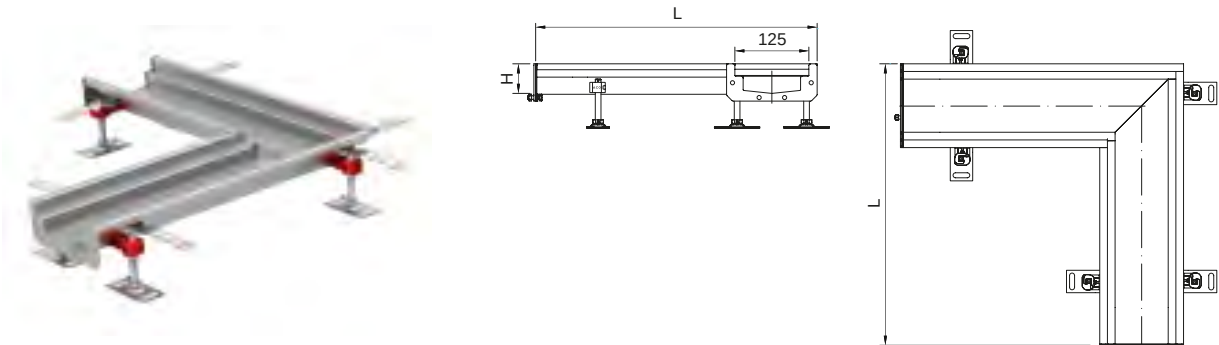


L [mm]	Dimensions		Item number	
	H1 [mm]	H2 [mm]	1.4301	1.4404
500	50	65	105151	407235
	65	80	105152	407236
1000	50	65	105155	407237
	65	80	105156	407238
	80	95	105157	407239
	95	110	105158	407240
2000	50	65	105161	407241
	65	80	105162	407242
	80	95	105163	407243
	95	110	105164	407244
	110	125	105165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

Note: Items are equipped with seal and connecting material on deeper side only. See page 116 for more details.



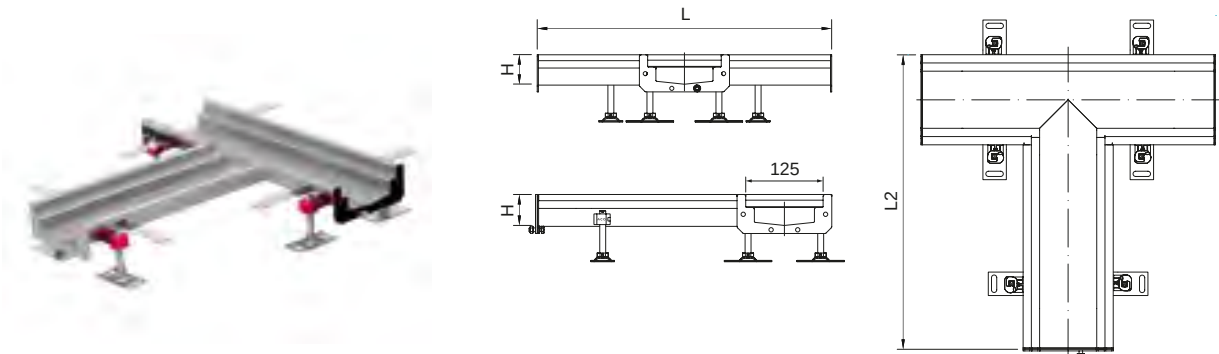
Corner unit



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.

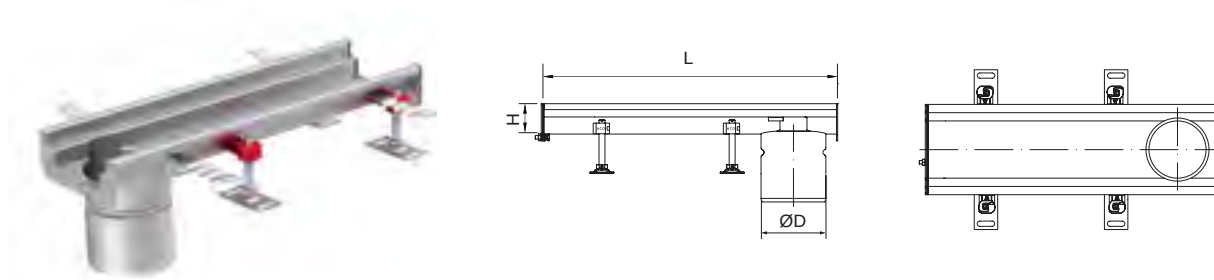
Branch unit



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.

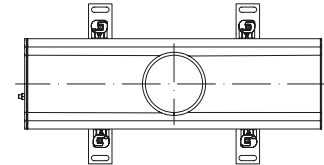
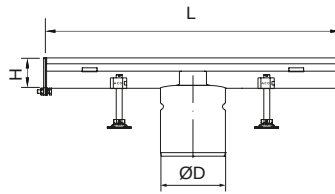
End outlet



Dimensions		Gully	Outlet diameter ØD [mm]	Item number	
L [mm]	H [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
1000	50			105183	407257
	65			105184	407258
	80			105185	407259
	95			105186	407260
	110			105187	407261
	125			105188	407262
500	50	ACO hygienic gully 142	125	415946	415991
	65			415947	415992
	80			415948	415993
	95			415949	415994
	110			415950	415995
	125			415951	415996
1000	50			415952	415997
	65			415953	415998
	80			415954	415999
	95			415955	416000
	110			415956	416001
	125			415957	416002
500	50	ACO hygienic gully 157	142	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.

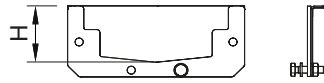
Centre outlet



Dimensions		Gully	Outlet diameter øD [mm]	Item number	
L [mm]	H [mm]			1.4301	1.4404
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			105199	407269
	65			105200	407270
	80			105201	407271
	95			105202	407272
	110			105203	407273
	125			105204	407274
500	50	ACO hygienic gully 142	125	415958	416003
	65			415959	416004
	80			415960	416005
	95			415961	416006
	110			415962	416007
	125			415963	416008
1000	50			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			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.

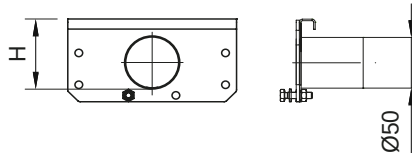
End plate



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

Note: Items are equipped with seal and connecting material.

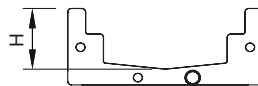
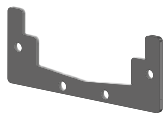
End plate with 50 mm outlet



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

Note: Items are equipped with seal and connecting material.

Seal rubber

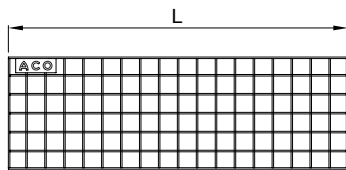


Dimensions H [mm]	Item number
	NBR
50	413587
65	413588
80	413589
95	413590
110	413591
125	413592

Note: Items include seal and connecting material.

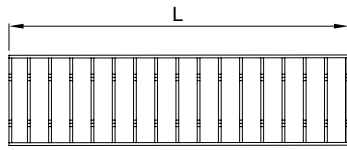
Gratings for ACO modular box channel 125
Product information

- Fully tested and classified to EN 1433
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- 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

ACO mesh grating


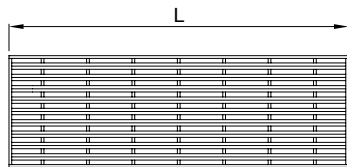
Length L [mm]	Load class	Slip resistant	Material	Item number
375	A 15	No	1.4301	414132
			1.4404	414182
	C 250	Yes	1.4301	414130
			1.4404	414180
		No	1.4301	414133
			1.4404	414183
500	A 15	No	1.4301	21720
			1.4404	21725
	C 250	Yes	1.4301	21710
			1.4404	21715
		No	1.4301	21920
			1.4404	21925
1000	A 15	No	1.4301	21620
			1.4404	21625
	C 250	Yes	1.4301	21610
			1.4404	21615
		No	1.4301	21820
			1.4404	21825
		Yes	1.4301	21810
			1.4404	21815

ACO ladder grating



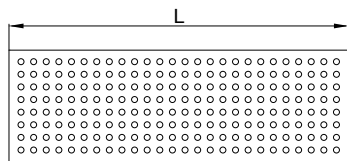
Length L [mm]	Load class	Slip resistant	Material	Item number
375	C 250	Yes	1.4301	414134
			1.4404	414184
500	C 250	Yes	1.4301	21740
			1.4404	21745
1000	C 250	Yes	1.4301	21741
			1.4404	21746

ACO heelsafe grating



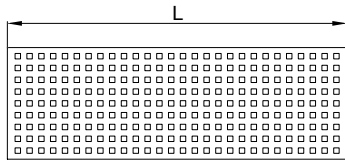
Length L [mm]	Load class	Slip resistant	Material	Item number
375	B 125	No	1.4301	414135
			1.4404	414185
500	B 125	No	1.4301	96819
			1.4404	401238
1000	B 125	No	1.4301	96818
			1.4404	401237

ACO perforated grating



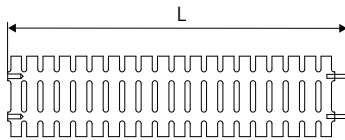
Length L [mm]	Load class	Slip resistant	Material	Item number
375	A 15	No	1.4301	414136
			1.4404	414186
	B 125	No	1.4301	414137
			1.4404	414187
500	A 15	No	1.4301	21760
			1.4404	21765
	B 125	No	1.4301	21960
			1.4404	21965
1000	A 15	No	1.4301	21660
			1.4404	21665
	B 125	No	1.4301	21860
			1.4404	21865

ACO quadrato grating



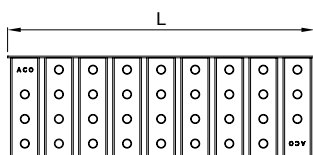
Length L [mm]	Load class	Slip resistant	With lock	Material	Item number
375	A 15	No	No	1.4301	414138
				1.4404	414188
500	A 15	No	No	1.4301	105530
				1.4404	413999
			Yes	1.4301	105528
				1.4404	407925
1000	A 15	No	No	1.4301	105529
				1.4404	413998
			Yes	1.4301	105527
				1.4404	407924

ACO plastic grating



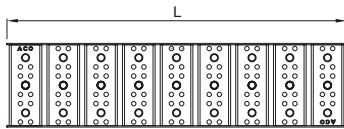
Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	No	-	21790
1000	A 15	No	-	21690

ACO multi-slot 5 grating



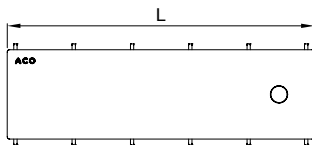
Length L [mm]	Load class	Slip resistant	Material	Item number
375	A 15	Yes	1.4301	414139
			1.4404	414189
500	A 15	Yes	1.4301	409290
			1.4404	409291
	B 125	Yes	1.4301	409294
			1.4404	409295
1 000	A 15	Yes	1.4301	409286
			1.4404	409287
	B 125	Yes	1.4301	409236
			1.4404	409237

ACO multi-slot 8 grating



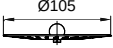
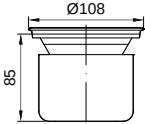
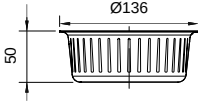
Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	Yes	1.4301	415739
			1.4404	415740
	B 125	Yes	1.4301	415747
			1.4404	415748
	C 250	Yes	1.4301	415753
			1.4404	415754
1 000	A 15	Yes	1.4301	415735
			1.4404	415736
	B 125	Yes	1.4301	415743
			1.4404	415744
	C 250	Yes	1.4301	415751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

Accessories for ACO modular box channel 125

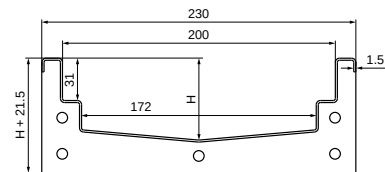
	Description	Used with	Material	Item number
	Sieve ■ Stainless steel	■ ACO modular box channel 125 with outlet 110 mm	1.4301	97235
			1.4404	97285
	Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular box channel 125 with outlet 110 mm	1.4301	97217
			1.4404	97267
	Silt basket ■ Stainless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

ACO modular box channel 200 - standard articles

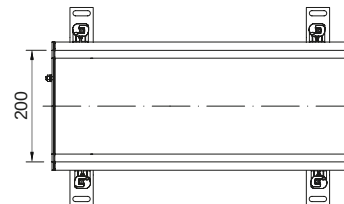
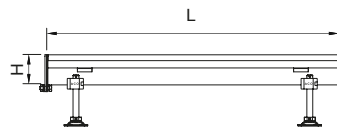
Product information

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

- 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)



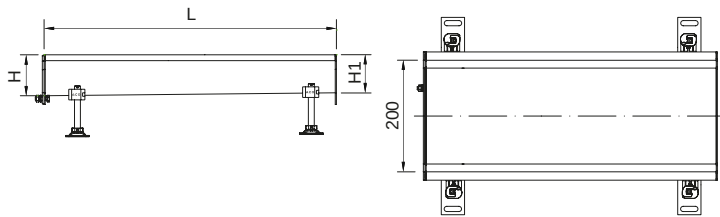
Level invert channel



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.

Sloping invert channel

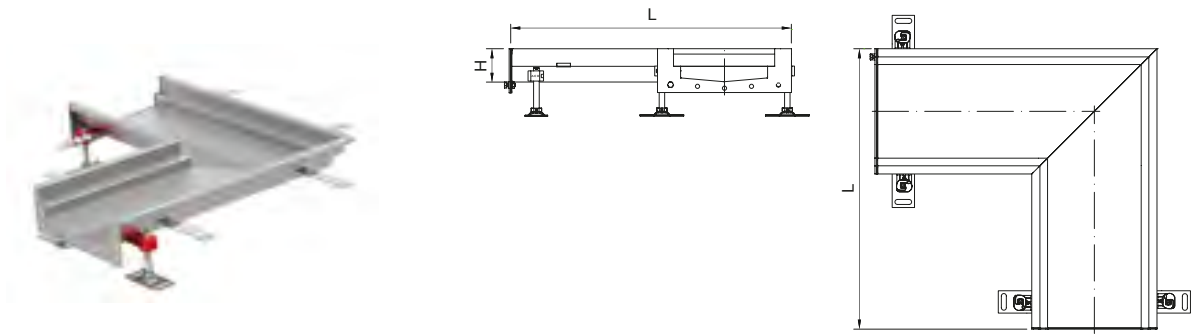


L [mm]	Dimensions		Item number	
	H1 [mm]	H2 [mm]	1.4301	1.4404
500	55	60	401855	401856
1000	60	70	401871	401872
	70	80	402464	402465
	80	90	402466	402467
	90	100	402468	402469
	100	110	402470	402471
	110	120	402480	402481
2000	60	70	401887	401888
	70	80	402472	402473
	80	90	402474	402475
	90	100	402476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

Note: Items are equipped with seal and connecting material on deeper side only. See page 116 for more details.



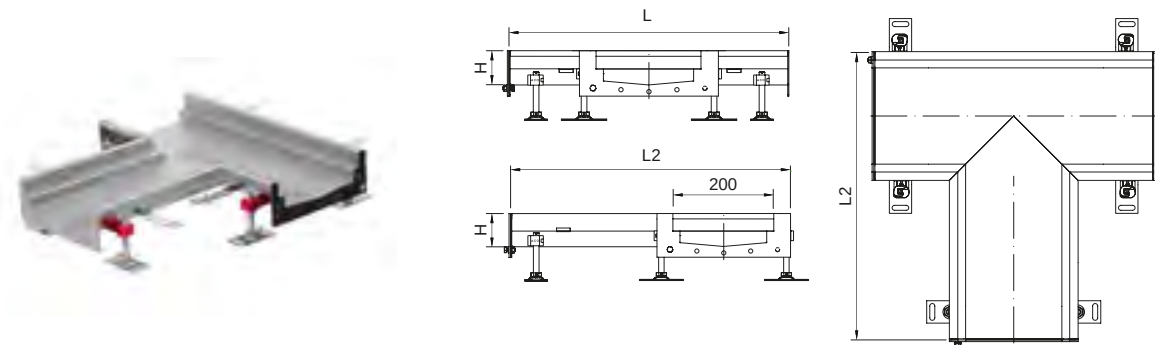
Corner unit



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

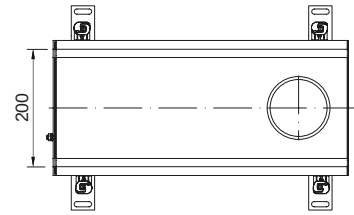
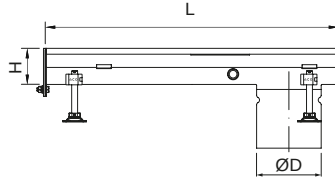
Note: Items are equipped with seal and connecting material on one side.

Branch unit



Dimensions			Item number	
L [mm]	H1 [mm]	H2 [mm]	1.4301	1.4404
500	515	60	401933	401934
		80	402494	402495
		100	402496	402497

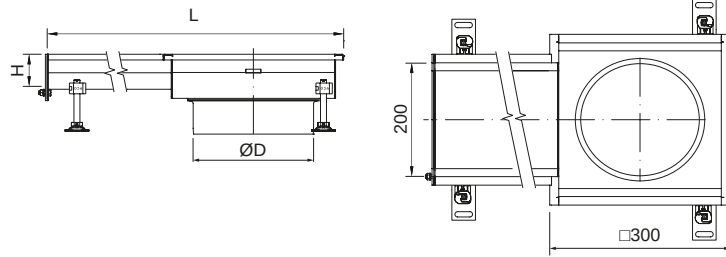
Note: Items are equipped with seal and connecting material on one side.

End outlet


Dimensions		Gully	Outlet diameter øD [mm]	Item number	
L [mm]	H [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
1000	60			414291	414299
	70			414292	414300
	80			414293	414301
	90			414294	414302
	100			414295	414303
	110			414296	414304
	120			414297	414305
	140			414298	414306
500	60	ACO hygienic gully 157	142	409900	409908
	70			409901	409909
	80			409902	409910
	90			409903	409911
	100			409904	409912
	110			409905	409913
	120			409906	409914
	140			409907	409915
1000	60			409932	409940
	70			409933	409941
	80			409934	409942
	90			409935	409943
	100			409936	409944
	110			409937	409945
	120			409938	409946
	140			409939	409947

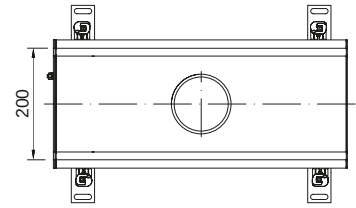
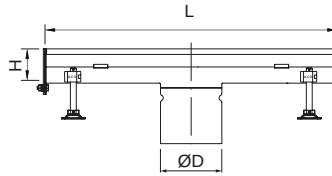
Note: Note: Items are equipped with seal and connecting material on one side.

End outlet



Dimensions		Gully	Outlet diameter øD [mm]	Item number	
L [mm]	H [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

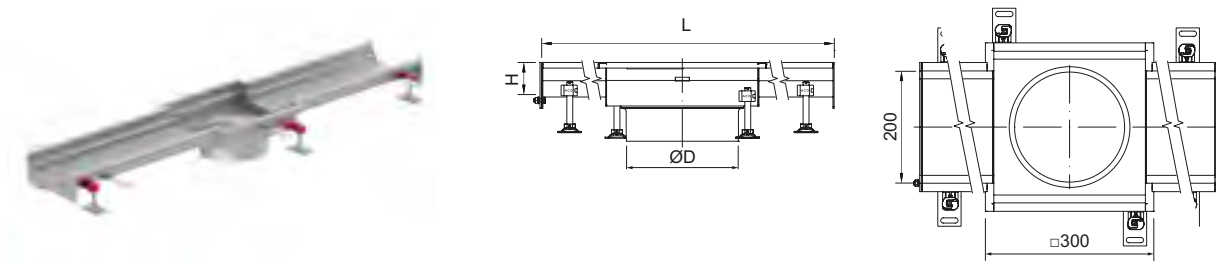
Note: Items are equipped with seal and connecting material on one side.

Centre outlet


Dimensions		Gully	Outlet diameter øD [mm]	Item number	
L [mm]	H [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
1000	60			414323	414331
	70			414324	414332
	80			414325	414333
	90			414326	414334
	100			414327	414335
	110			414328	414336
	120			414329	414337
	140			414330	414338
500	60	ACO hygienic gully 157	142	409916	409924
	70			409917	409925
	80			409918	409926
	90			409919	409927
	100			409920	409928
	110			409921	409929
	120			409922	409930
	140			409923	409931
1000	60			409948	409956
	70			409949	409957
	80			409950	409958
	90			409951	409959
	100			409952	409960
	110			409953	409961
	120			409954	409962
	140			409955	409963

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

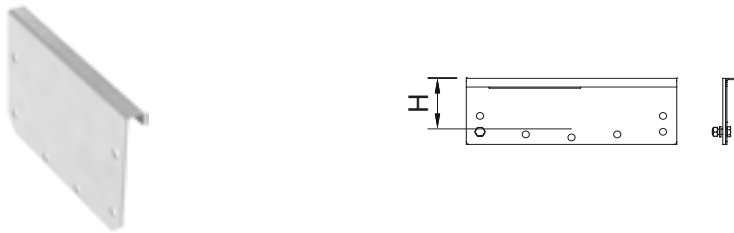
Centre outlet



Dimensions		Gully	Outlet diameter ØD [mm]	Item number	
L [mm]	H [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.

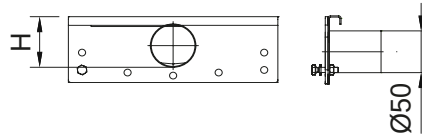
End plate



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.

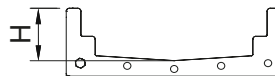
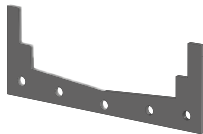
End plate with 50 mm outlet



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

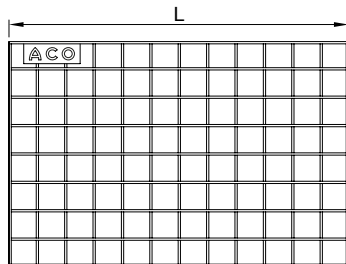
Note: Items include seal and connecting material.

Gratings for ACO modular box channel 200

Product information

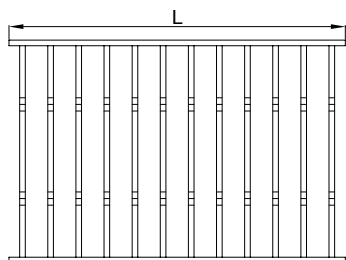
- Fully tested and classified to EN 1433
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Special length 300 mm for branches and corner units
- Slip resistant gratings available for added user safety
- Load classes A 15, B 125 and C 250

ACO mesh grating



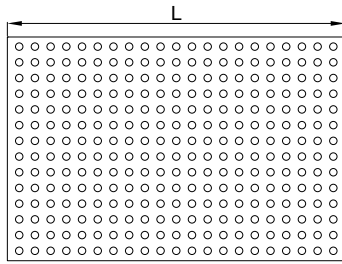
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	No	1.4301	414141
			1.4404	414191
		Yes	1.4301	414140
			1.4404	414190
500	A 15	No	1.4301	92207
			1.4404	92257
		Yes	1.4301	92200
			1.4404	92250
1000	A 15	No	1.4301	92208
			1.4404	92258
		Yes	1.4301	92201
			1.4404	92251

ACO ladder grating



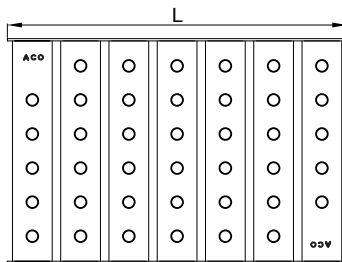
Length L [mm]	Load class	Slip resistant	Material	Item number
300	C 250	Yes	1.4301	414142
			1.4404	414192
500	C 250	Yes	1.4301	92214
			1.4404	92264
1000	C 250	Yes	1.4301	92215
			1.4404	92265

ACO perforated grating



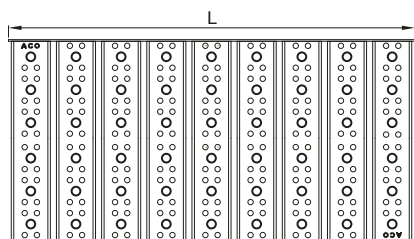
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	No	1.4301	414143
			1.4404	414193
500	A 15	No	1.4301	402689
			1.4404	405188
1000	A 15	No	1.4301	402688
			1.4404	405187

ACO multi-slot 5 grating



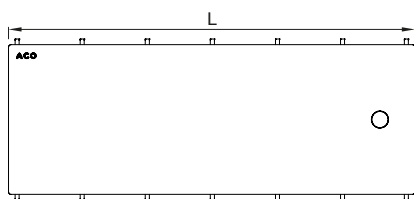
Length L [mm]	Load class	Slip resistant	Material	Item number
300	A 15	Yes	1.4301	414145
			1.4404	414195
500	A 15	Yes	1.4301	409292
			1.4404	409293
	B 125	Yes	1.4301	409296
			1.4404	409297
1000	A 15	Yes	1.4301	409288
			1.4404	409289
	B 125	Yes	1.4301	409240
			1.4404	409241

ACO multi-slot 8 grating



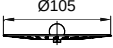
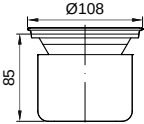
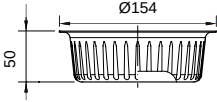
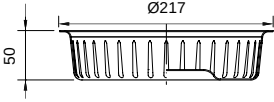
Length L [mm]	Load class	Slip resistant	Material	Item number
500	A 15	Yes	1.4301	415741
			1.4404	415742
	B 125	Yes	1.4301	415749
			1.4404	415750
1000	A 15	Yes	1.4301	415737
			1.4404	415738
	B 125	Yes	1.4301	415745
			1.4404	415746

ACO hygienic slot cover



Length L [mm]	Load class	Slip resistant	Material	Item number
375	B 125	Yes	1.4301	445812
			1.4404	445813
	C 250	Yes	1.4301	445814
			1.4404	445815
500	B 125	Yes	1.4301	445804
			1.4404	445805
	C 250	Yes	1.4301	445806
			1.4404	445807
1 000	B 125	Yes	1.4301	445808
			1.4404	445809
	C 250	Yes	1.4301	445810
			1.4404	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	97235
			1.4404	97285
	Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular box channel 200 with outlet 110 mm	1.4301	97217
			1.4404	97267
	Silt basket ■ Stainless steel ■ 0.6 litre capacity	■ ACO modular box channel 200 with outlet 142 mm	1.4301	408202
			1.4404	408212
	Silt basket ■ Stainless steel ■ 1.4 litre capacity	■ ACO modular box channel 200 with outlet 200 mm	1.4301	408222
			1.4404	408232

ACO modular slot channel 20 - standard articles

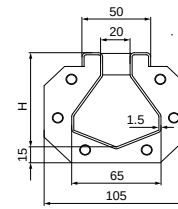
Product information

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

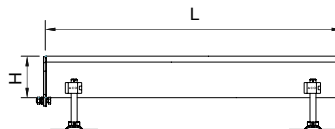
Modular concept allows specification of standard channel units to surround machinery and fit within existing tiling patterns.

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

- 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
- Wide range of gratings for load class up to C 250 (EN 1433)



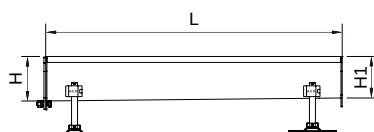
Level invert channel



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

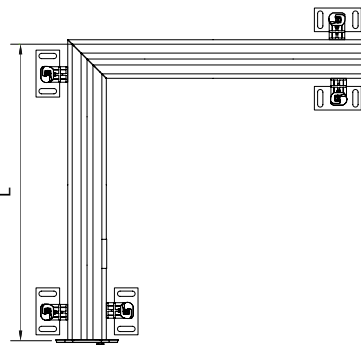
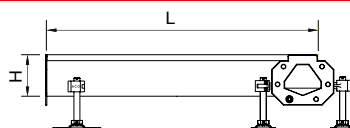


L [mm]	Dimensions		Item number	
	H1 [mm]	H2 [mm]	1.4301	1.4404
500	70	75	92303	92353
	75	80	92304	92354
1000	70	75	92308	92358
	75	80	92309	92359
2000	70	80	92313	92363
	80	90	92314	92364
	90	100	92315	92365
3000	70	80	92319	92369
	80	90	92320	92370
	90	100	92321	92371
	100	110	92322	92372
	110	120	92323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

Note: Items are equipped with seal and connecting material on deeper side only. See page 116 for more details.



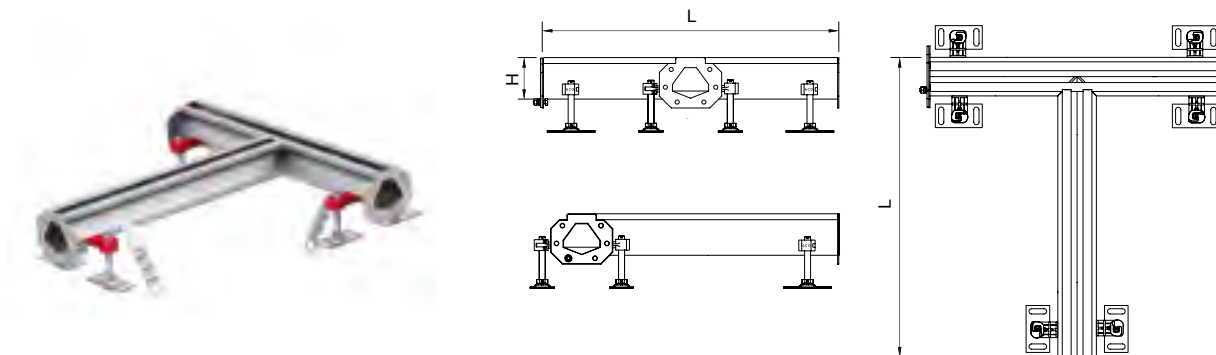
Corner unit



L [mm]	Dimensions		Item number	
	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.

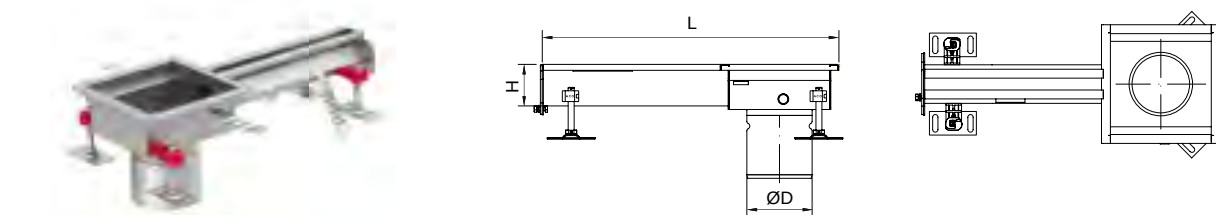
Branch unit



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

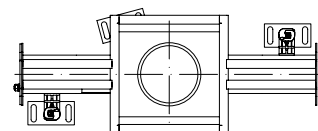
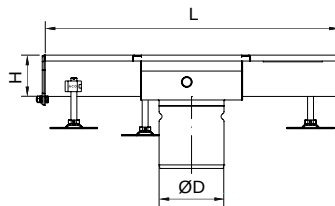
Note: Items are equipped with seal and connecting material on one side.

End outlet



Dimensions		Gully	Gully top	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	ACO hygienic gully 142	200 x 200	125	415925	415970
	75				415926	415971
	80				415927	415972
	90				415928	415973
	100				415929	415974
	110				415930	415975
	120				415931	415976
	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

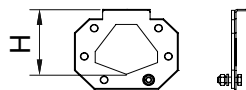
Note: Items are equipped with seal and connecting material on one side.

Centre outlet


Dimensions		Gully	Gully top [mm]	Outlet diameter øD [mm]	Item number	
L [mm]	H [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
500	70	ACO hygienic gully 142	200 x 200	125	415932	415977
	75				415933	415978
	80				415934	415979
	90				415935	415980
	100				415936	415981
	110				415937	415982
	120				415938	415983
	70				415939	415984
1000	75				415940	415985
	80				415941	415986
	90				415942	415987
	100				415943	415988
	110				415944	415989
	120				415945	415990
500	70	ACO hygienic gully 157	250 x 250	142	414215	414222
	75				414216	414223
	80				414217	414224
	90				414218	414225
	100				414219	414226
	110				414220	414227
	120				414221	414228
	70				414229	414236
1000	75				414230	414237
	80				414231	414238
	90				414232	414239
	100				414233	414240
	110				414234	414241
	120				414235	414242

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

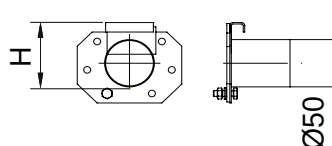
End plate



Dimensions H [mm]	Item number	
	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.

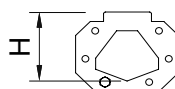
End plate with 50 mm outlet



Dimensions H [mm]	Item number	
	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.

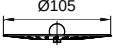
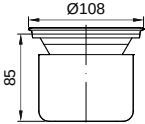
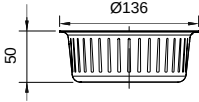
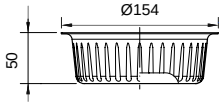
Seal rubber



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

Note: Items include 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	97235
			1.4404	97285
	Foul air trap ■ Stainless steel ■ Water seal 50 mm	■ ACO modular slot channel 20 with outlet 110 mm	1.4301	97217
			1.4404	97267
	Silt basket ■ Stainless steel ■ 0.5 litre capacity	■ ACO modular slot channel 20 with outlet 125 mm	1.4301	414339
			1.4404	414340
	Silt basket ■ Stainless steel ■ 0.6 litre capacity	■ ACO modular slot channel 20 with outlet 142 mm	1.4301	408202
			1.4404	408212

ACO modular channel - semi-standard

Product information

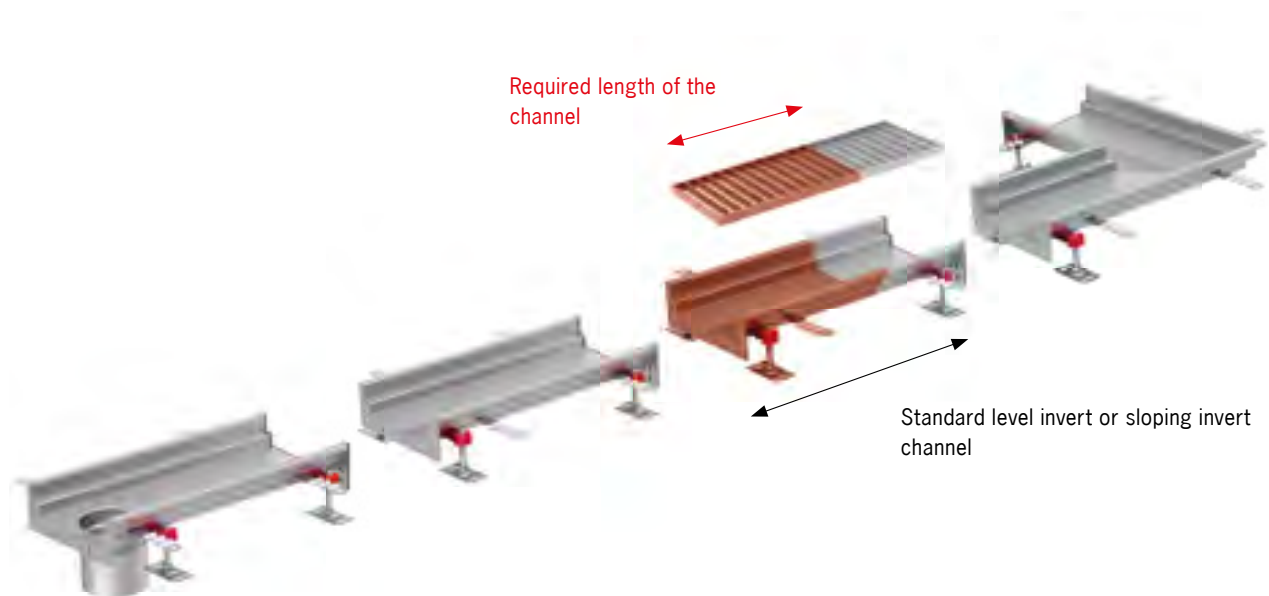
Semi-standard items offer/provide easy and fast way to get a slot or box channel of a special length to complete a linear drainage project with standard stock items. Simply specify the length you need.

How to specify semi-standard items:

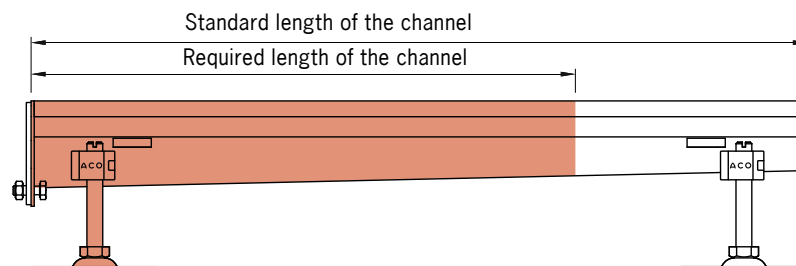
Specify the part number from which the semi-standard item will be produced.

How it works:

The semi-standard item is produced from a standard stock item (level invert and sloping invert channels only) which is shortened according to customer's need. The shortened item is then equipped with flange and sealing; to fit the following channel in the drainage project. Grating of the same length is also produced.



- Specify the required length of the item (length always starts at lower height of channel if channel with invert slope used).



ACO design channel

Product information

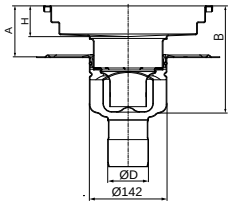
Even atypical solutions can be easily realised using stainless steel. The broad spectrum of finishes and shapes gives complete design freedom.

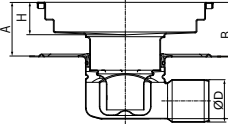
Customers' individual channel designs will be managed by our expert team with tailor-made services for specific projects with full proposal information, CAD layout drawings and assembly instructions. Contact our Sales/Technical department team and we will help you with your project.



Flow rates and Construction heights

ACO channel, ACO hygienic gully 142

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

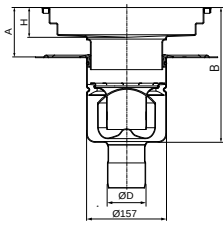
			
Outlet diameter	Outlet position	Flow rate [l/s]	
ØD	Horizontal	H = 60 mm	
		A min. = 75	A max. = 115
		B min. = 185	B max. = 245
75	Horizontal	1.4	1.7
110		1.6	1.9

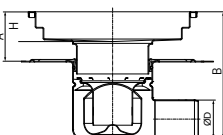
Notes:

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

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

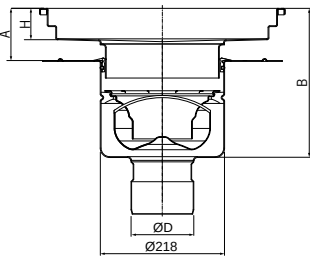
			
Outlet diameter	Outlet position	Flow rate [l/s]	
øD		H = 60 mm	
		A min. = 75	A max. = 115
		B min. = 242	B max. = 285
75	Horizontal	2.8	3.1
110		3.2	3.9

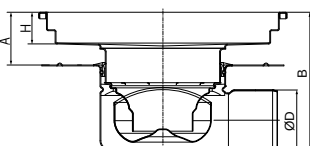
Notes:

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

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

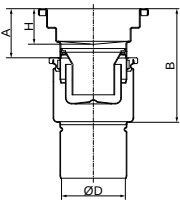
											
Outlet diameter	Outlet position	Flow rate [l/s]									
øD		H = 60 mm		H = 80 mm		H = 100 mm		H = 150 mm		H = 200 mm	
		A min. = 85 [mm]	A max. = 115 [mm]	A min. = 105 [mm]	A max. = 135 [mm]	A min. = 125 [mm]	A max. = 155 [mm]	A min. = 175 [mm]	A max. = 205 [mm]	A min. = 225 [mm]	A max. = 255 [mm]
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

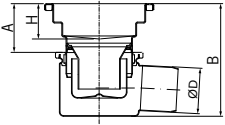
Notes:

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

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

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

Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



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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



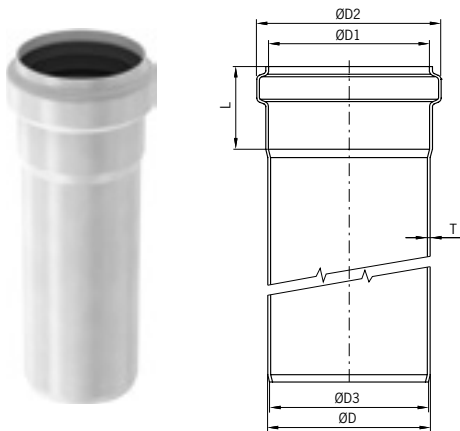
Accessories

Straight pipes

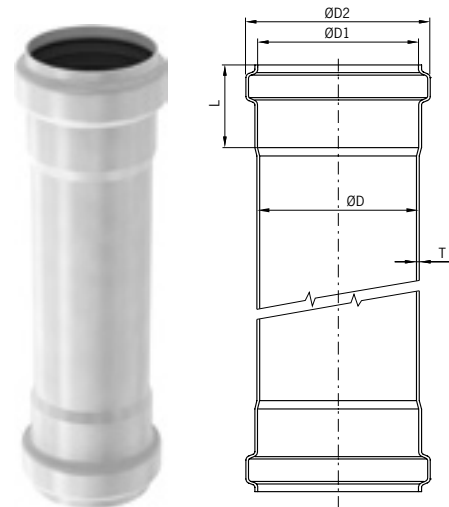
Product information

- Pipes are available in 40 mm, 50 mm, 75 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm external diameters
- Lengths from 0.15 meter up to 6 meter
- Available in 1.4301 (AISI 304) and 1.4404 (AISI 316L) grades stainless steel
- 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 - straight pipe



ACO pipe - double socketed pipe

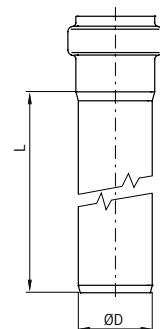


Dimensions of socket and spigot

ØD [mm]	ØD ₁ [mm]	ØD ₂ [mm]	ØD ₃ [mm]	Socket length L [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

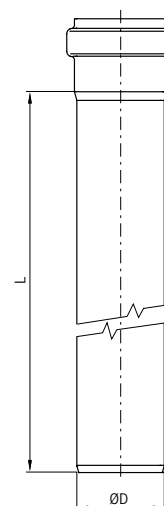
ACO pipe - straight pipe 40 mm

Seal material	Outlet diameter ØD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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	417278
	40	1000	1.1	417312	417380
	40	1500	1.6	417314	417282
	40	2000	2.1	417316	417284
	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



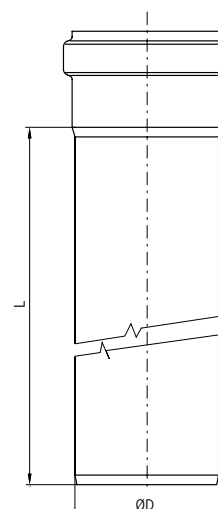
ACO pipe - straight pipe 50 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	50	6000	7.5	419474	419498
	50	150	0.2	98501	98551
	50	250	0.4	98503	98553
	50	500	0.7	98505	98555
	50	750	1.0	98507	98557
	50	1000	1.3	98509	98559
	50	1500	1.9	98511	98561
	50	2000	2.6	98513	98563
	50	2500	3.2	419275	419283
	50	3000	3.8	98515	98565
	50	4000	5.0	419459	419483
	50	5000	6.3	419467	419491
	50	6000	7.5	419475	419499



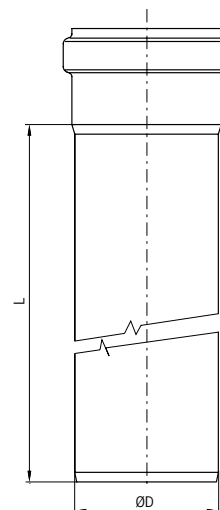
ACO pipe - straight pipe 75 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	75	6000	11.3	419476	419500
	75	150	0.4	98517	98567
	75	250	0.6	98519	98569
	75	500	1.0	98521	98571
	75	750	1.5	98523	98573
	75	1000	2.0	98525	98575
	75	1500	2.9	98527	98577
	75	2000	3.6	98529	98579
	75	2500	4.8	419277	419285
	75	3000	5.7	98531	98581
	75	4000	7.6	419461	419485
	75	5000	9.4	419469	419493
	75	6000	11.3	419477	419501



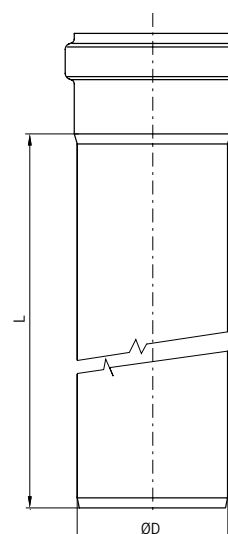
ACO pipe - straight pipe 110 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	110	150	0.6	98533	98583
	110	250	0.9	98535	98585
	110	500	1.5	98537	98587
	110	750	2.2	98539	98589
	110	1000	2.9	98541	98591
	110	1500	4.3	98543	98593
	110	2000	5.7	98545	98595
	110	2500	7.1	419279	419287
	110	3000	8.4	98547	98597
	110	4000	11.1	419463	419487
	110	5000	13.9	419471	419495
	110	6000	16.7	419479	419503



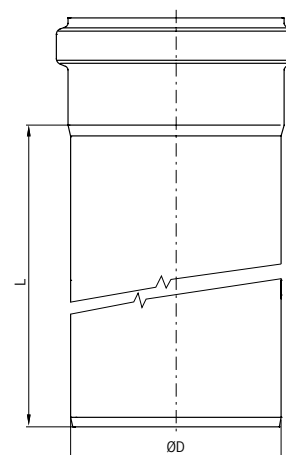
ACO pipe - straight pipe 125 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	125	6000	19.0	419710	419730
	125	150	0.7	419693	419713
	125	250	1.0	419695	419715
	125	500	1.7	419697	419717
	125	750	2.5	419699	419719
	125	1000	3.3	419701	419721
	125	1500	4.9	419703	419723
	125	2000	6.5	419705	419725
	125	2500	8.1	419709	419729
Viton®	125	3000	9.6	419707	419727
	125	6000	19.0	419711	419731



ACO pipe - straight pipe 160 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	160	6000	30.4	419480	419504
	160	150	1.1	98549	98599
	160	250	1.6	98601	98651
	160	500	2.9	98603	98653
	160	750	4.1	98605	98655
	160	1000	5.4	98607	98657
	160	1500	7.9	98609	98659
	160	2000	10.4	98611	98661
	160	2500	12.9	419281	419289
	160	3000	15.4	98613	98663
	160	4000	20.4	419465	419489
	160	5000	25.4	419473	419497
	160	6000	30.4	419481	419505



ACO pipe - straight pipe 200 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	200	500	4.5	419385	419386
	200	1000	8.3	419389	419390
	200	2000	15.8	419393	419394
	200	3000	23.2	419397	419398

ACO pipe - straight pipe 250 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	250	500	5.5	417073	417074
	250	1000	10.2	417077	417078
	250	2000	19.4	417081	417082
	250	3000	28.7	417085	417086

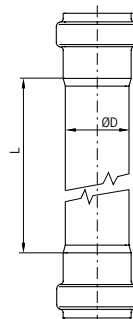
ACO pipe - straight pipe 315 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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

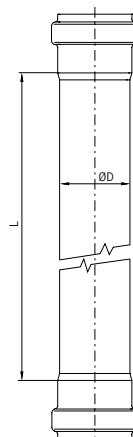
ACO pipe - double socketed pipe 40 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 1.4404
EPDM	40	250	0.2	417276	417290
	40	500	0.6	417278	417292
	40	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



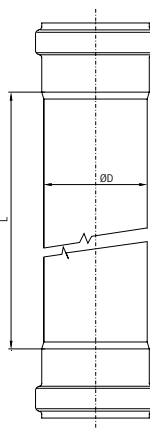
ACO pipe - double socketed pipe 50 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	50	3000	3.9	419566	419606
	50	250	0.4	419555	419595
	50	500	0.7	419557	419597
	50	750	1.1	419559	419599
	50	1000	1.4	419561	419601
	50	1500	2.0	419563	419603
	50	2000	2.6	419565	419605
	50	3000	3.9	419567	419607



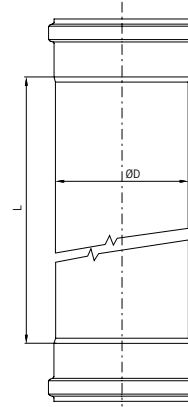
ACO pipe - double socketed pipe 75 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	75	3000	5.8	419580	419620
	75	250	0.7	419569	419609
	75	500	1.2	419571	419611
	75	750	1.6	419573	419613
	75	1000	2.1	419575	419615
	75	1500	3.0	419577	419617
	75	2000	4.0	419579	419619
	75	3000	5.8	419581	419621



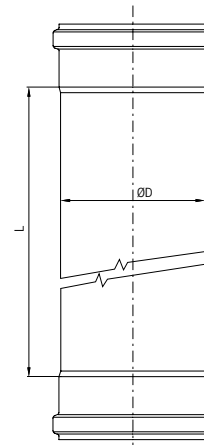
ACO pipe - double socketed pipe 110 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	110	500	1.7	419583	419623
	110	750	2.4	419585	419625
	110	1000	3.0	419587	419627
	110	1500	4.4	419589	419629
	110	2000	5.7	419591	419631
	110	3000	8.4	419593	419633



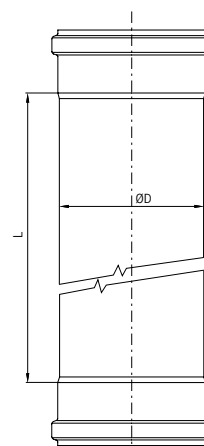
ACO pipe - double socketed pipe 125 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	125	500	1.7	419788	419800
	125	750	2.5	419790	419802
	125	1000	3.3	419792	419804
	125	1500	4.9	419794	419806
	125	2000	6.5	419796	419808
	125	3000	9.6	419798	419810



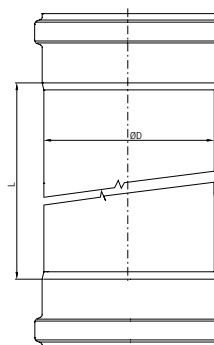
ACO pipe - double socketed pipe 160 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	160	500	3.3	419635	419647
	160	750	4.5	419637	419649
	160	1000	5.8	419639	419651
	160	1500	8.2	419641	419653
	160	2000	10.7	419643	419655
	160	3000	15.7	419645	419657



ACO pipe - double socketed pipe 200 mm

Seal material	Outlet diameter øD [mm]	Active length L [mm]	Weight [kg]	Item number 1.4301	Item number 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
Viton®	200	500	5.0	419660	419661
	200	1000	8.6	419664	419665
	200	2000	15.9	419668	419669
	200	3000	23.1	419672	419673

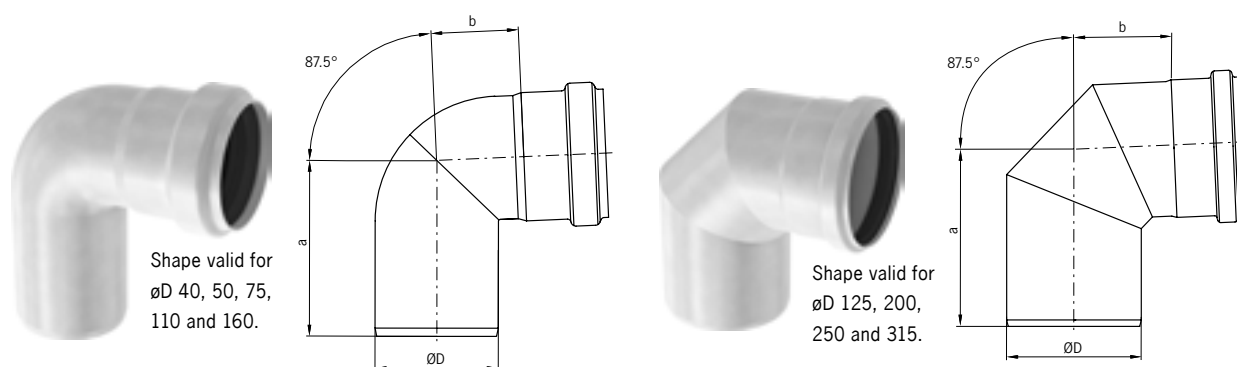


Bends

Product information

- Bends are available in 40 mm, 50 mm, 75 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm external diameters
- Available in 1.4301 (AISI 304) and 1.4404 (AISI 316L) grades stainless steel
- 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°

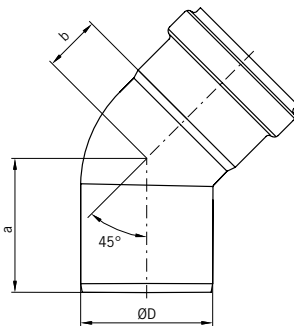


Seal material	Outlet diameter ØD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	40	79	32	0.2	417342	417350
	50	86	40	0.2	98700	98750
	75	107	53	0.4	98702	98752
	110	134	67	0.7	98704	98754
	125	161	93	0.8	419732	419734
	160	181	105	1.7	98706	98756
	200	215	129	3.9	419411	419413
	250	297	198	5.1	-	417088
Viton®	315	393	286	12.8	-	417204
	50	86	40	0.2	98701	98751
	75	107	53	0.4	98703	98753
	110	134	67	0.7	98705	98755
	125	161	93	0.8	419733	419735
	160	181	105	1.7	98707	98757
	200	215	129	3.9	419412	419414
	250	297	198	5.1	-	417090

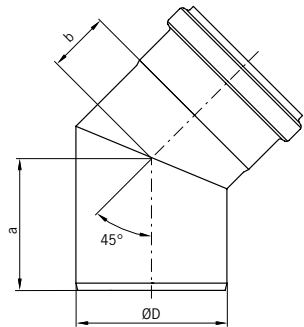
ACO pipe - bend 45°



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

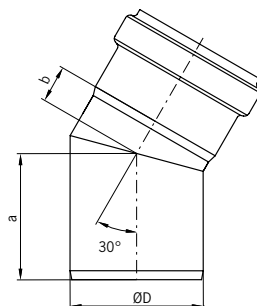


Shape valid for
øD 125, 200,
250 and 315.



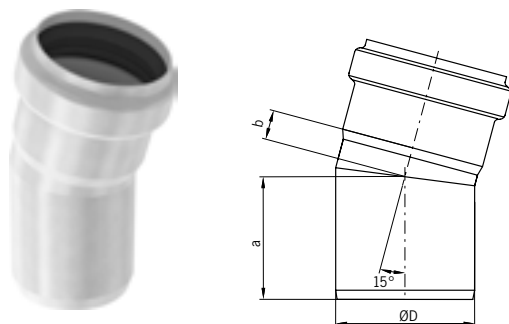
Seal material	Outlet diameter øD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	40	58	21	0.2	417344	417352
	50	62	24	0.2	98708	98758
	75	76	32	0.3	98710	98760
	110	93	42	0.5	98712	98762
	125	110	50	0.6	419736	419738
	160	131	55	1.3	98714	98764
	200	152	60	2.7	419407	419409
	250	177	76	4.1	-	417092
Viton®	315	199	91	7.2	-	417205
	50	62	24	0.2	98709	98759
	75	76	32	0.3	98711	98761
	110	93	42	0.5	98713	98763
	125	110	50	0.6	419737	419739
	160	131	55	1.3	98715	98765
	200	152	60	2.7	419408	419410
	250	177	76	4.1	-	417094

ACO pipe - bend 30°



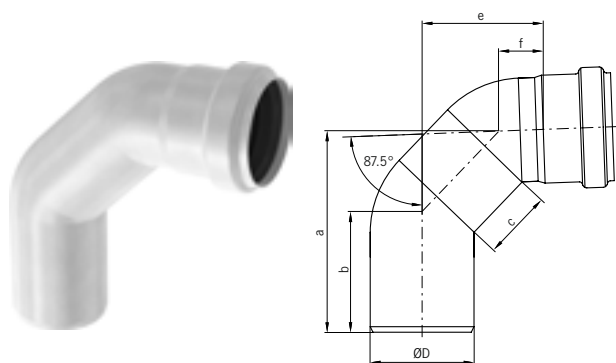
Seal material	Outlet diameter øD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	40	55	14	0.1	417346	417354
	50	57	16	0.2	98716	98766
	75	71	21	0.3	98718	98768
	110	85	27	0.5	98720	98770
	125	98	28	0.6	419740	419742
	160	110	40	1.2	98722	98772
	200	137	45	2.3	419403	419405
	250	153	58	2.9	-	417096
Viton®	315	172	68	5.8	-	417206
	50	57	16	0.2	98717	98767
	75	71	21	0.3	98719	98769
	110	85	27	0.5	98721	98771
	125	98	28	0.6	419741	419743
	160	110	40	1.2	98723	98773
	200	137	45	2.3	419404	419406
	250	153	58	2.9	-	417098

ACO pipe - bend 15°



Seal material	Outlet diameter øD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
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
Viton®	315	151	46	5.4	-	417207
	50	54	12	0.1	98725	98775
	75	66	16	0.3	98727	98777
	110	78	15	0.4	98729	98779
	125	84	19	0.5	419745	419747
	160	99	29	1.0	98731	98781
	200	123	31	1.9	419400	419402
	250	136	40	2.5	-	417102

ACO pipe - long bend 87.5°



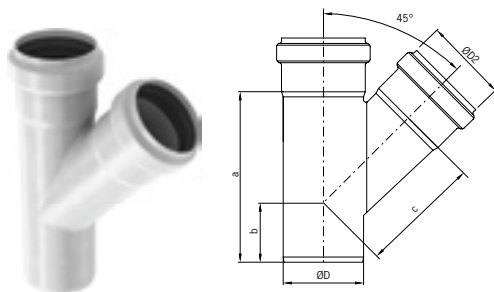
Seal material	Outlet diameter øD [mm]	Dimensions					Weight [kg]	Item number	
		a [mm]	b [mm]	c [mm]	e [mm]	f [mm]		1.4301	1.4404
EPDM	40	105	64	50	67	40	0.2	417340	417338
	50	123	71	50	75	25	0.3	419146	419000
	75	146	87	50	88	32	0.5	419148	419002
	110	316	103	250	246	39	1.4	419150	419004
	160	360	126	250	270	92	2.2	419152	419144
Viton®	50	123	71	50	75	25	0.3	419147	419001
	75	146	87	50	88	32	0.5	419149	419003
	110	316	103	250	246	39	1.4	419151	419005
	160	360	126	250	270	92	2.2	419153	419145

Branches

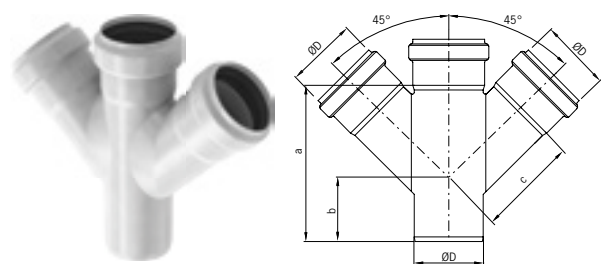
Product information

- Branches are available in 40 mm, 50 mm, 75 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm external diameters
- Available in 1.4301 (AISI 304) and 1.4404 (AISI 316L) grades stainless steel
- 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

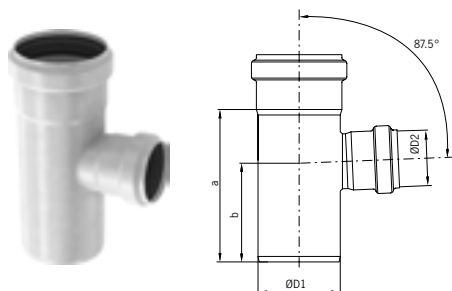
ACO pipe - single branch



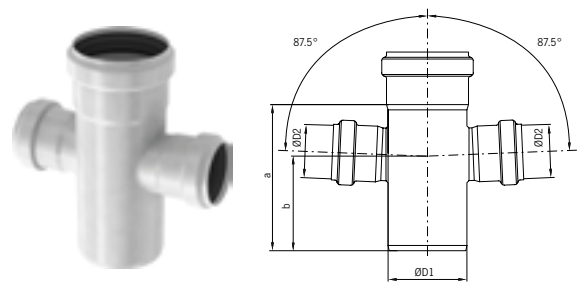
ACO pipe - double branch



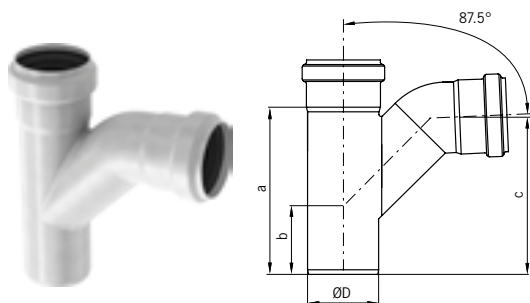
ACO pipe - single branch reduction



ACO pipe - double branch reduction

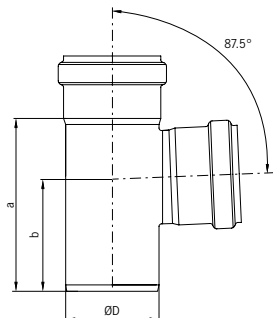


ACO pipe - swept single branch



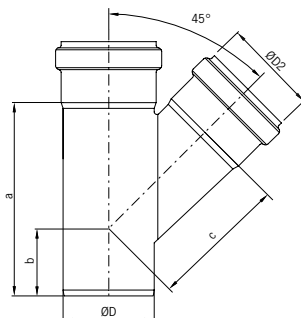
Single branches

ACO pipe - single branch 87.5°



Seal material	Outlet diameter ØD [mm]	Dimensions		Weight [kg]	Item number	Item number
		a [mm]	b [mm]		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
Viton®	315	476	281	14.8	-	417208
	50	106	71	0.3	98733	98783
	75	139	90	0.5	98735	98785
	110	183	117	0.8	98737	98787
	125	220	135	0.9	419749	419751
	160	288	184	2.3	98739	98789
	200	333	206	4.5	419420	419422
	250	363	215	5.5	-	417106

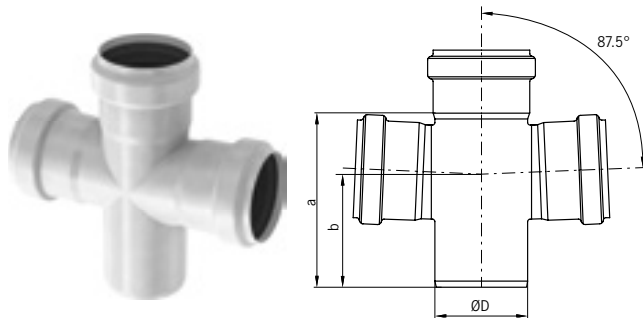
ACO pipe - single branch 45°



Seal material	Outlet diameter ØD [mm]	Dimensions			Weight [kg]	Item number	Item number
		a [mm]	b [mm]	c [mm]		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
Viton®	315	616	195	521	20.6	-	417209
	50	128	57	76	0.3	98749	98799
	75	179	74	110	0.5	98801	98851
	110	233	88	149	1.0	98803	98853
	125	273	103	170	1.1	419761	419763
	160	332	119	222	2.6	98805	98855
	200	415	151	274	5.7	419428	419430
	250	513	172	336	9.2	-	417110

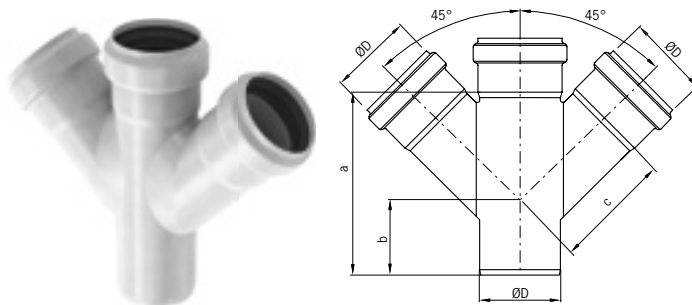
Double branches

ACO pipe - double branch 87.5°



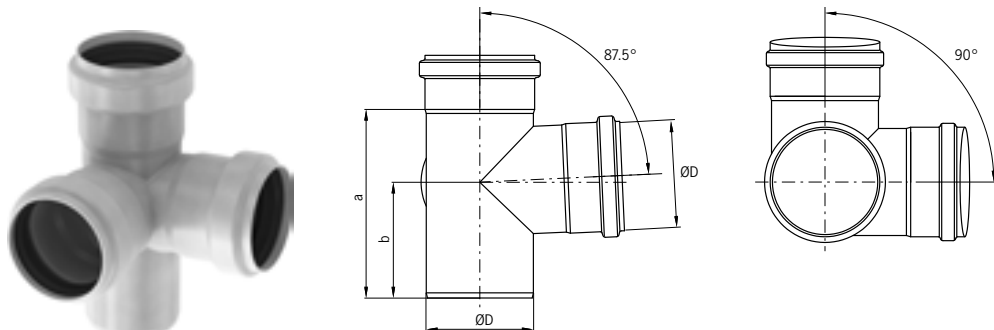
Seal material	Outlet diameter øD [mm]	Dimensions		Weight [kg]	Item number 1.4301	Item number 1.4404
EPDM	40	101	69	0.3	417364	417370
	50	106	71	0.3	98740	98790
	75	139	90	0.6	98742	98792
	110	183	117	0.9	98744	98794
	160	288	184	2.7	98746	98796
Viton®	50	106	71	0.3	98741	98791
	75	139	90	0.6	98743	98793
	110	183	117	0.9	98745	98795
	160	288	184	2.7	98747	98797

ACO pipe - double branch 45°



Seal material	Outlet diameter øD [mm]	Dimensions			Weight [kg]	Item number 1.4301	Item number 1.4404
EPDM	40	118	58	63	0.4	417374	417378
	50	128	57	76	0.4	98806	98856
	75	179	74	110	0.7	98808	98858
	110	233	88	149	1.2	98810	98860
	160	332	184	222	3.5	98812	98862
	250	509	172	336	11	-	417120
	315	616	195	521	29.7	-	417212
Viton®	50	128	57	76	0.4	98807	98857
	75	179	74	110	0.7	98809	98859
	110	233	88	149	1.2	98811	98861
	160	332	184	222	3.5	98813	98863
	250	509	172	336	11	-	417122

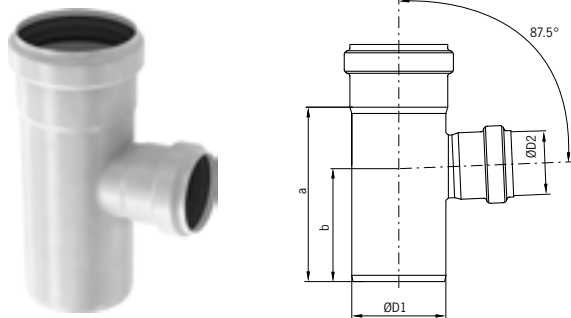
ACO pipe - corner branch 87.5°



Seal material	Outlet diameter ØD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	40	101	69	0.3	417414	417415
	50	106	71	0.4	419162	419210
	75	139	90	0.7	419164	419212
	110	183	117	1.1	419166	419214
	160	288	184	2.9	419168	419216
Viton®	50	106	71	0.4	419163	419211
	75	139	90	0.7	419165	419213
	110	183	117	1.1	419167	419215
	160	288	184	2.9	419169	419217

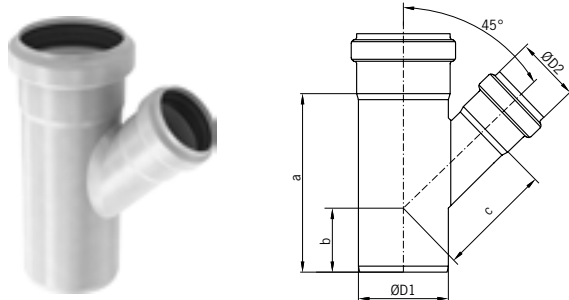
Single branch reductions

ACO pipe - single branch reduction 87.5°



Seal material	Outlet diameter		Dimensions		Weight [kg]	Item number	
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]		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
Viton®	315	250	411	248	10.5	-	417210
	75	50	139	90	0.3	98929	98931
	110	50	183	117	0.5	98933	98935
	110	75	183	117	0.8	98937	98939
	125	75	187	110	0.9	419753	419755
	125	110	205	127	0.9	419757	419759
	160	110	288	184	2.3	400692	400694
	200	160	293	186	3.7	419416	419418
	250	200	349	226	5.8	-	417114

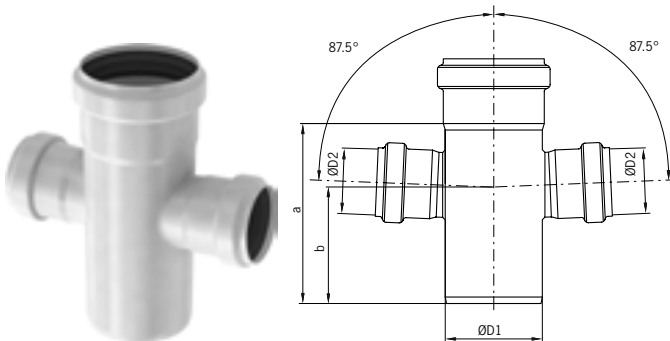
ACO pipe - single branch reduction 45°



Seal material	Outlet diameter		Dimensions			Weight [kg]	Item number	
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]	c [mm]		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
Viton®	75	50	144	56	94	0.3	400662	400664
	110	50	147	42	119	0.5	400666	400668
	110	75	182	60	135	1.0	400670	400672
	125	75	200	65	141	1.1	419765	419767
	125	110	250	90	160	1.1	419769	419771
	160	110	332	119	191	2.6	400700	400702
	200	160	359	123	250	4.7	419424	419426
	250	200	429	175	307	7.6	-	417118

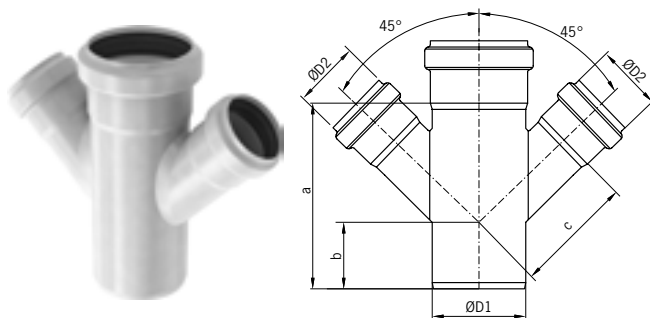
Double branch reductions

ACO pipe - double branch reduction 87.5°



Seal material	Outlet diameter		Dimensions		Weight [kg]	Item number	
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]		1.4301	1.4404
EPDM	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
Viton®	75	50	139	90	0.3	98941	98943
	110	50	183	117	0.6	98945	98947
	110	75	183	117	0.9	98901	98903
	160	110	288	184	2.7	400696	400698

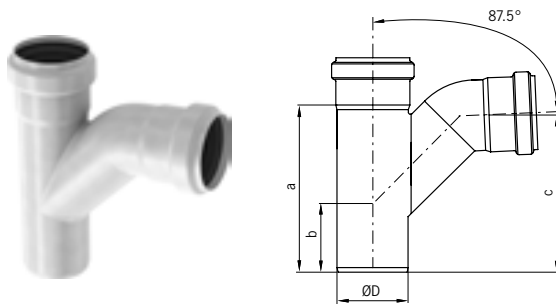
ACO pipe - double branch reduction 45°



Seal material	Outlet diameter		Dimensions			Weight [kg]	Item number	
	ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]	c [mm]		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
Viton®	75	50	144	56	94	0.4	400674	400676
	110	50	147	42	119	0.7	400678	400680
	110	75	182	60	135	1.2	400682	400684
	160	110	332	119	190	3.5	400704	400706
	250	200	429	150	307	10.1	-	417126

Swept single branch

ACO pipe - swept single branch 87.5°



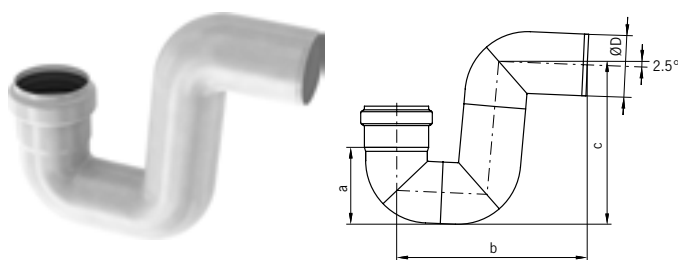
Seal material	Outlet diameter ØD [mm]	Dimensions			Weight [kg]	Item number	
		a [mm]	b [mm]	c [mm]		1.4301	1.4404
EPDM	40	115	55	105	0.3	417376	417380
	50	128	57	117	0.3	98814	98864
	75	179	74	157	0.6	98816	98866
	110	233	88	209	1.1	98818	98868
	160	332	184	302	2.8	98820	98870
Viton®	50	128	57	117	0.3	98815	98865
	75	179	74	157	0.6	98817	98867
	110	233	88	209	1.1	98819	98869
	160	332	184	302	2.8	98821	98871

Accessories

Product information

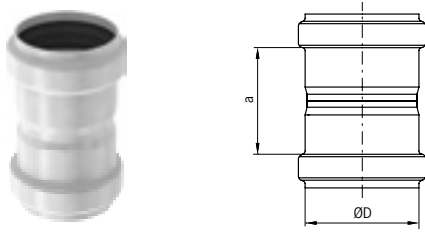
- Accessories are available in 40 mm, 50 mm, 75 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm external diameters
- Available in 1.4301 (AISI 304) and 1.4404 (AISI 316L) grades stainless steel
- Push-fit system for quick assembly
- Superior seal security – components comprise a unique double lip sealing system, ideal for extraneous conditions
- Fully comply to EN 1124
- EPDM and Viton® seals available
- Fully pickled and passivated

"P" trap



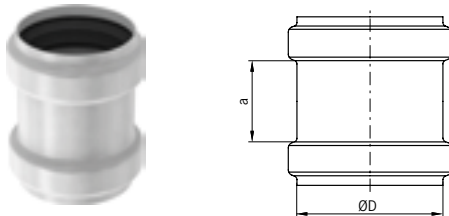
Seal material	Outlet diameter ØD [mm]	Dimensions			Weight [kg]	Item number	Item number
		a [mm]	b [mm]	c [mm]		1.4301	1.4404
EPDM	50	68	187	149	0.5	98822	98872
	75	94	232	193	0.7	98824	98874
	110	132	300	254	1.3	98826	98876
	160	190	403	347	3.3	98828	98878
Viton®	50	68	187	149	0.5	98823	98873
	75	94	232	193	0.7	98825	98875
	110	132	300	254	1.3	98827	98877
	160	190	403	347	3.3	98829	98879

Straight coupling



Seal material	Outlet diameter øD [mm]	Dimensions a [mm]	Weight [kg]	Item number 1.4301	Item number 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	-	417159
Viton®	315	179	5.2	-	417225
	50	54	0.1	98921	98971
	75	75	0.2	98923	98973
	110	84	0.4	98925	98975
	125	140	0.4	419814	419816
	160	110	0.8	98927	98977
	200	136	1.8	419432	419434
	250	181	3.1	-	417161

Repair coupling



Seal material	Outlet diameter øD [mm]	Dimensions a [mm]	Weight [kg]	Item number 1.4301	Item number 1.4404
EPDM	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
Viton®	50	44	0.1	98831	98881
	75	46	0.2	98833	98883
	110	52	0.3	98835	98885
	125	70	0.3	419773	419775
	160	76	0.7	98837	98887
	200	100	1.5	419436	419438
	250	182	2.4	-	417141

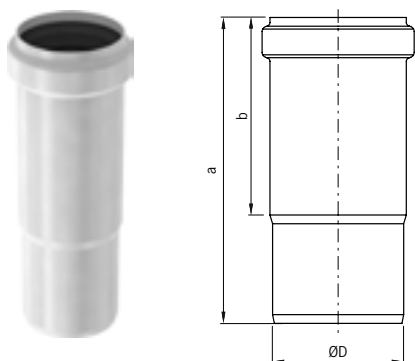
Note:

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:

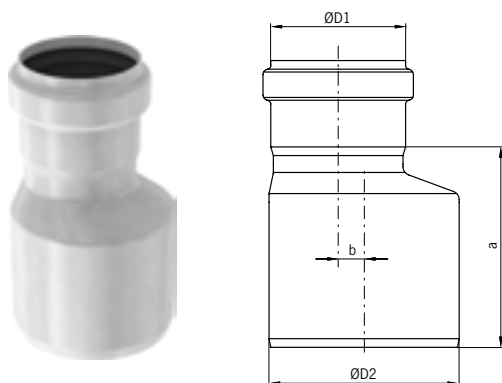
Mark the final position of the repair coupling on the installed pipe system to ensure the coupling seals are positioned symmetrically about the pipe joint.

Expansion socket



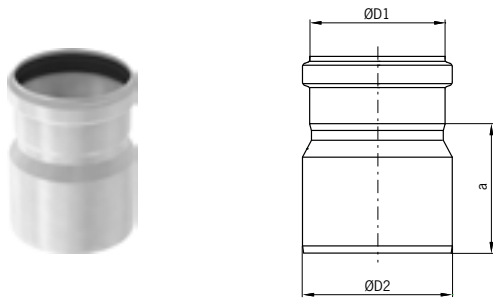
Seal material	Outlet diameter øD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	40	150	90	0.2	417382	417384
	50	159	102	0.2	98664	98666
	75	175	113	0.3	98668	98670
	110	200	121	0.5	98672	98674
	125	250	165	0.6	419776	419778
	160	292	170	1.4	98676	98678
	250	400	190	3.8	-	417143
Viton®	315	450	200	7.2	-	417221
	50	159	102	0.2	98665	98667
	75	175	113	0.3	98669	98671
	110	200	121	0.5	98673	98675
	125	250	165	0.6	419777	419779
	160	292	170	1.4	98677	98679
	250	400	190	3.8	-	417145

Eccentric increaser coupling



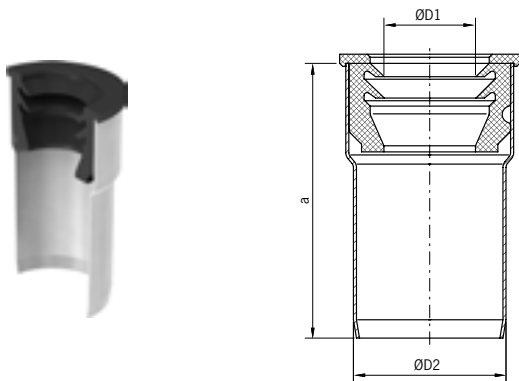
Seal material	Outlet diameter		Dimensions		Weight [kg]	Item number
	øD1 [mm]	øD2 [mm]	a [mm]	b [mm]		
EPDM	40	50	85	5	0.3	417418
	50	75	75	7	0.3	98892
	50	110	110	25	0.4	98978
	75	110	110	15	0.5	98894
	110	160	160	22	1.1	98896
	200	250	180	15	2.4	417135
	250	315	190	15	4.4	417218
Viton®	50	75	75	7	0.3	98893
	50	110	110	25	0.4	98979
	75	110	110	15	0.5	98895
	110	160	160	22	1.1	98897
	200	250	180	15	2.4	417136

Concentric increaser coupling



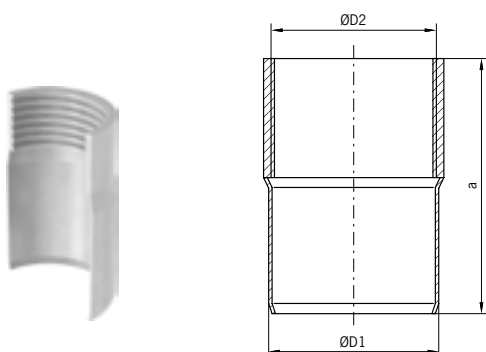
Seal material	Outlet diameter		Dimension	Weight	Item number
	ØD1 [mm]	ØD2 [mm]	a [mm]	[kg]	
EPDM	40	75	85	0.3	1.4404
	50	75	88	0.3	417417
	50	110	113	1.4	419826
	75	125	105	0.6	417018
	110	125	107	0.6	419828
	110	160	126	0.9	419780
	125	160	160	1.2	419830
	160	200	200	1.8	419811
	200	250	180	2.4	419441
Viton®	315	250	190	4.4	417133
	110	125	125	0.6	417217
	125	160	160	1.2	419781
	160	200	200	1.8	419812
	200	250	180	2.4	419442
					417134

Increaser connector



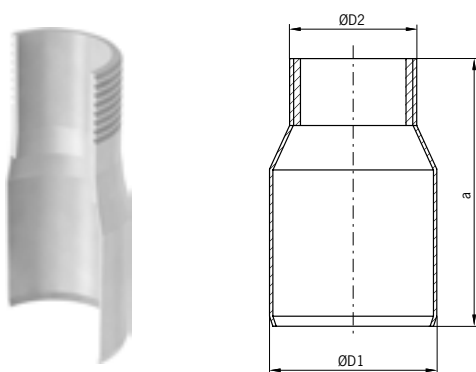
Seal material	Outlet diameter		Dimensions	Weight	Item number
	ØD1 [mm]	ØD2 [mm]	a [mm]	[kg]	
NBR	32	50	90	0.2	1.4404
	40	50	90	0.2	419373
					419374

Connector with internal screw thread and spigot



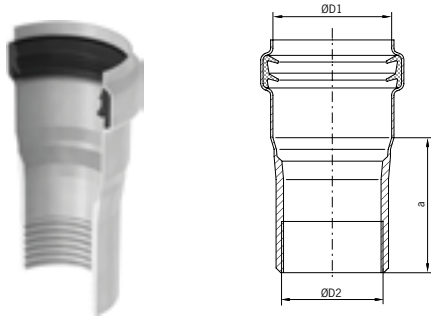
Outlet diameter		Dimensions	Weight	Item number
ØD1 [mm]	ØD2 [mm]	a [mm]	[kg]	1.4404
50	G 1¼"	72	0.2	98956
50	G 1½"	75	0.3	98957
50	G 2"	80	0.3	98958

Connector with external screw thread and spigot



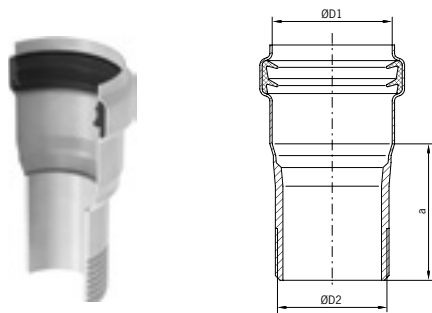
Outlet diameter		Dimensions	Weight	Item number
ØD1 [mm]	ØD2 [mm]	a [mm]	[kg]	1.4404
50	G 1¼"	100	0.2	419330
50	G 1½"	100	0.3	419331
50	G 2"	100	0.3	419332

Connector with socket and internal screw thread



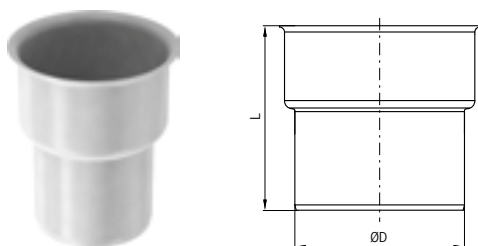
Seal material	Outlet diameter		Dimensions a [mm]	Weight [kg]	Item number
	ØD1 [mm]	ØD2 [mm]			
EPDM	50	G 1¼"	58	0.2	419333
	50	G 1½"	58	0.3	419335
	50	G 2"	58	0.3	419337
Viton®	50	G 1¼"	58	0.2	419334
	50	G 1½"	58	0.3	419336
	50	G 2"	58	0.3	419338

Connector with socket and external screw thread



Seal material	Outlet diameter		Dimensions a [mm]	Weight [kg]	Item number
	ØD1 [mm]	ØD2 [mm]			
EPDM	50	G 1¼"	58	0.2	419250
	50	G 1½"	58	0.3	419252
	50	G 2"	58	0.3	419254
Viton®	50	G 1¼"	58	0.2	419251
	50	G 1½"	58	0.3	419253
	50	G 2"	58	0.3	419255

Connector cast iron spigot → ACO pipe socket

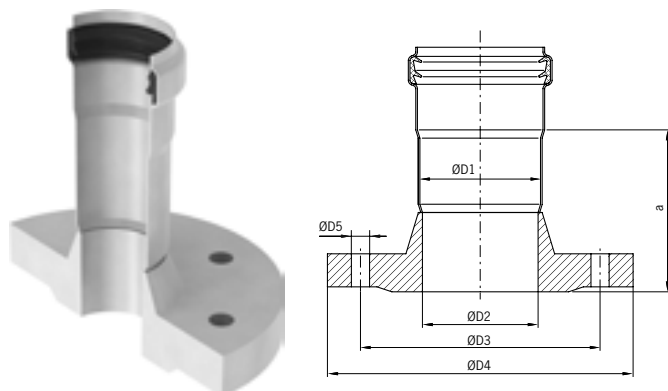


Outlet diameter ØD [mm]	Dimensions L [mm]	Weight [kg]	Item number
75	121	0.4	98904
110	137	0.6	98906

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 [mm]	Dimensions a [mm]	Weight [kg]	Item number
	ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	ØD4 [mm]				
EPDM	50	DN 40	110	150	4 × 18	100	2.3	419256
	50	DN 50	125	165	4 × 18	100	2.7	419258
	75	DN 65	145	185	4 × 18	100	3.4	419260
	110	DN 100	180	220	8 × 18	100	4.9	419262
	200	DN 200	295	340	12 × 22	102	12.0	419514
Viton®	50	DN 40	110	150	4 × 18	100	2.3	419257
	50	DN 50	125	165	4 × 18	100	2.7	419259
	75	DN 65	145	185	4 × 18	100	3.4	419261
	110	DN 100	180	220	8 × 18	100	4.9	419263
	200	DN 200	295	340	12 × 22	102	12.0	419515

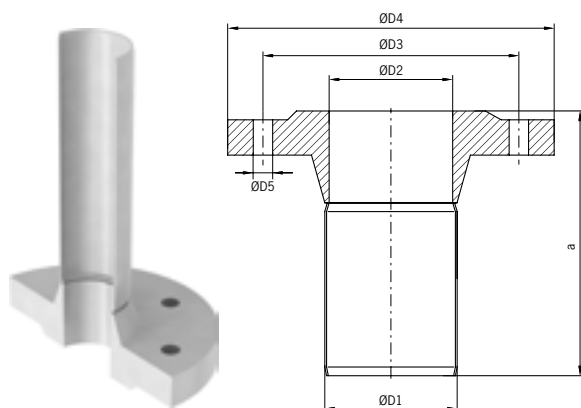
Note:

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



Outlet diameter				n x ØD5 [mm]	Dimensions a [mm]	Weight [kg]	Item number
ØD1 [mm]	ØD2 [mm]	ØD3 [mm]	ØD4 [mm]				
50	DN 40	110	150	4 × 18	192	2.3	419264
50	DN 50	125	165	4 × 18	192	2.7	419265
75	DN 65	145	185	4 × 18	245	3.4	419266
110	DN 100	180	220	8 × 18	259	4.9	419267
160	DN 150	240	285	8 × 22	200	8.5	419540
200	DN 200	295	340	12 × 22	240	12.3	419541

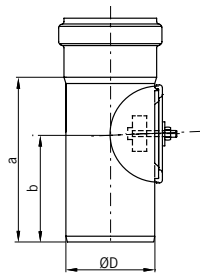
Note:

n – number of holes for screws in the flange.

Flange PN 16 DIN 2633.

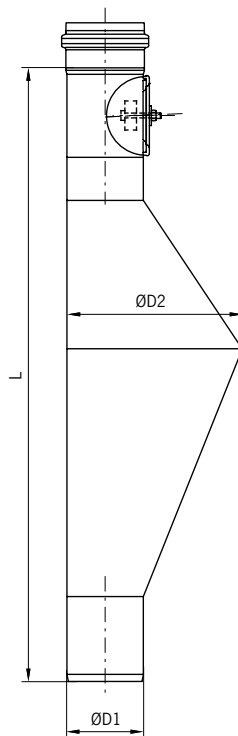
Flange PN 6 and PN 10 available on request.

Access unit



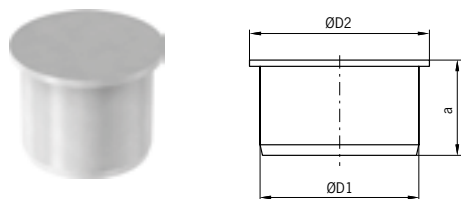
Seal material	Outlet diameter ØD [mm]	Dimensions		Weight [kg]	Item number	
		a [mm]	b [mm]		1.4301	1.4404
EPDM	75	139	90	0.5	98913	98963
	110	183	117	0.8	98915	98965
	125	210	135	0.9	419783	419785
	160	288	184	2.3	98917	98967
	200	293	186	3.7	419676	419678
	250	290	184	3.8	-	417128
Viton®	315	340	228	8.9	-	417214
	75	139	90	0.5	98914	98964
	110	183	117	0.8	98916	98966
	125	210	135	0.9	419784	419786
	160	288	184	2.3	98918	98968
	200	293	186	3.7	419677	419679
	250	290	184	3.8	-	417130

Rat-stop



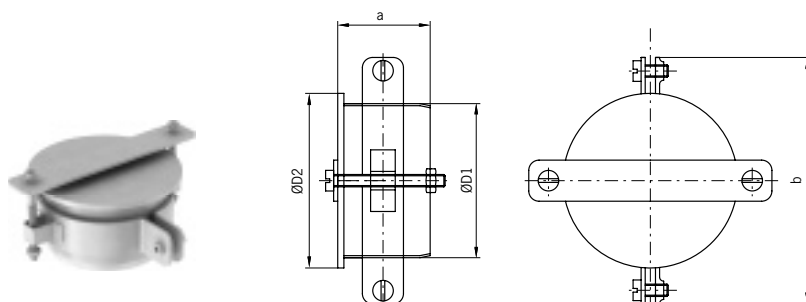
Seal material	Outlet diameter		Dimensions L [mm]	Weight [kg]	Item number	
	ØD1 [mm]	ØD2 [mm]			1.4301	1.4404
EPDM	110	250	864	3.8	419268	419270
Viton®	110	250	864	3.8	419269	419271

Socket plug



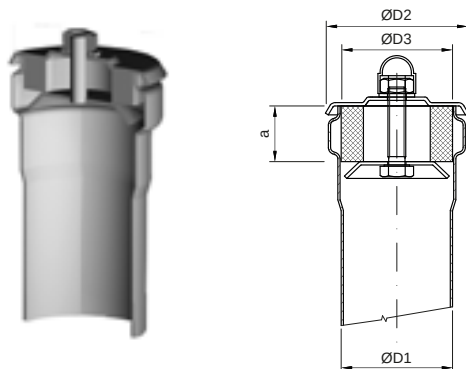
Outlet diameter		Dimensions	Weight	Item number
ØD1 [mm]	ØD2 [mm]	a [mm]	[kg]	1.4404
40	35	50	0.1	417405
50	58	45	0.1	98888
75	85	45	0.3	98889
110	120	45	0.5	98890
125	135	50	0.6	419782
160	170	50	0.5	98891
200	210	50	0.7	98994
250	260	83	1.0	417131
315	325	73	2.2	417215

Socket plug with clamp



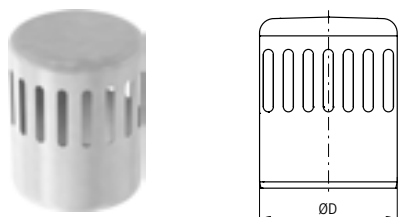
Outlet diameter		Dimensions		Weight	Item number
ØD1 [mm]	ØD2 [mm]	a [mm]	b [mm]	[kg]	1.4404
40					417402
50	58	45	88	0.4	419138
75	85	45	120	0.6	419139
110	120	45	167	0.8	419140
160	170	50	214	1.1	419141
250	260	83	302	1.3	417132
315	325	130	371	3.7	417216

Drainplugs with screwed plug



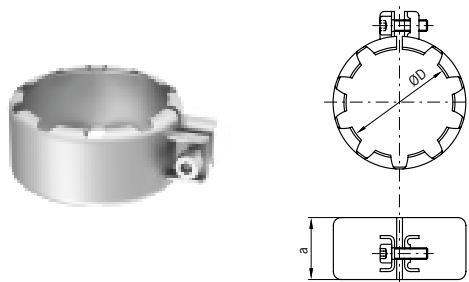
Outlet diameter			Dimensions a [mm]	Weight [kg]	Item number	
ØD1 [mm]	ØD2 [mm]	ØD3 [mm]			1.4301	1.4404
50	64	50	25	0.08	419942	419948
75	92	75	25	0.5	419943	419949
110	126	105	15	0.5	419944	419950
125	160	124	12	0.9	419945	419951
160	186	166	20	1.2	419946	419952

Vent cowl



Outlet diameter ØD [mm]	Weight [kg]	Item number
110	0.4	1.4404
		98962

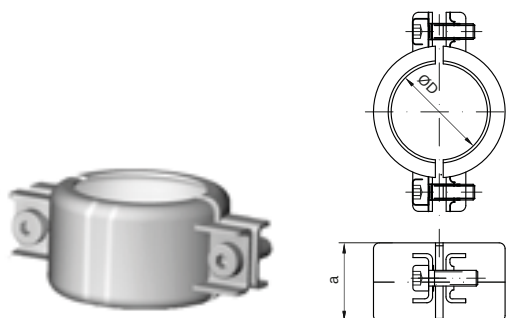
Socket clamp



Outlet diameter øD [mm]	Dimensions a [mm]	Weight [kg]	Item number 1.4404
50	40	0.11	417067
75	43	0.16	417069
110	43	0.25	417227

Note: See page 193 for maximum operating pressures

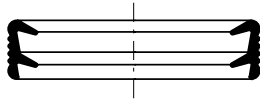
Socket clamp - two parts



Outlet diameter øD [mm]	Dimensions a [mm]	Weight [kg]	Item number 1.4301	Item number 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 193 for maximum operating pressures

Seal



Outlet diameter øD [mm]	Weight [kg]	Item number EPDM	Item number NBR	Item number Viton®
40	0.01	417400	417401	–
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 228

Reduction sealing cast iron spigot → ACO pipe socket



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

Note:

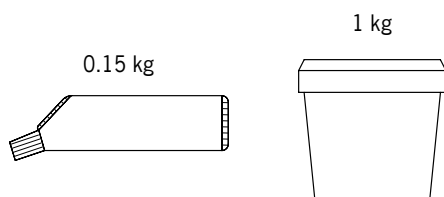
While purchasing AP reduction sealing cast iron spigot → ACO pipe, it is necessary to order AP cast iron connector.

Reduction sealing ACO pipe spigot → cast iron socket



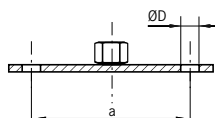
Outlet diameter øD [mm]	Weight [kg]	Item number EPDM
DN 70/75	0.05	400586
DN 100/110	0.08	400587
DN 150/160	0.12	400588

ACO Universal lubricant



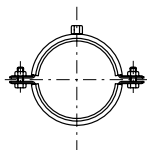
Weight [kg]	Item number
0.15	E80350000
1.00	E80350001

Fixing plate



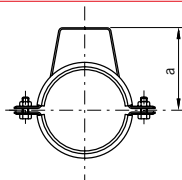
Outlet diameter $\varnothing D$ [mm]	Dimensions a [mm]	Weight [kg]	Item number Galvanised steel	Item number 1.4404
8.4	70	0.05	400525	400521

Support bracket with rubber infill



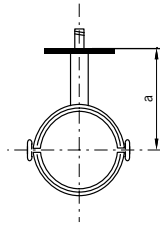
Outlet diameter $\varnothing D$ [mm]	Weight [kg]	Item number Galvanised steel	Item number 1.4404
40	0.12	417434	417359
50	0.14	400533	400529
75	0.23	400534	400530
110	0.33	400535	400531
125	0.36	419854	419855
160	0.39	400536	400532
200	0.44	419451	419675
250	0.60	–	417149
315	1.0	–	417224

Support bracket with rubber infill and stirrup



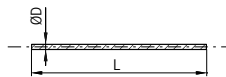
Outlet diameter $\varnothing D$ [mm]	Dimensions a [mm]	Weight [kg]	Item number Galvanised steel	Item number 1.4404
50	56	0.18	400541	400537
75	80	0.28	400542	400538
110	116	0.41	400543	400539
160	166	0.48	400544	400540

Support bracket with rubber infill and key



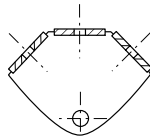
Outlet diameter øD [mm]	Dimensions a [mm]	Weight [kg]	Item number Galvanised steel	Item number 1.4404
50	120	0.16	400549	400545
75	133	0.26	400550	400546
110	150	0.38	400551	400547
160	175	0.44	400552	400548

Threaded support pole M8



øD [mm]	L [mm]	Weight [kg]	Item number Galvanised steel	Item number 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	Item number 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

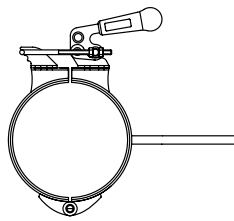


øD [mm]	Weight [kg]	Item number
50-110	1.0	419364
110-160	2.0	400738
160-250	2.0	417228

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

Gradient 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]	Flow rate Q [l/s]	Velocity v [m/s]	Flow rate Q [l/s]	Velocity v [m/s]	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 50 mm		Pipe ø 75 mm		Pipe ø 110 mm		Pipe ø 125 mm	
	Flow rate Q [l/s]	Velocity v [m/s]	Flow rate Q [l/s]	Velocity v [m/s]	Flow rate Q [l/s]	Velocity v [m/s]	Flow rate Q [l/s]	Velocity v [m/s]
10.0	2.30	1.27	7.14	1.71	20.45	2.23	28.97	2.44
7.5	1.99	1.10	6.19	1.48	17.71	1.93	25.09	2.11
5.0	1.63	0.90	5.05	1.21	14.46	1.58	20.49	1.72
4.5	1.54	0.85	4.79	1.14	13.72	1.50	19.43	1.64
4.0	1.46	0.80	4.52	1.08	12.94	1.41	18.32	1.54
3.5	1.36	0.75	4.23	1.01	12.10	1.32	17.14	1.44
3.0	1.26	0.70	3.91	0.93	11.20	1.22	15.87	1.34
2.5	1.15	0.64	3.57	0.85	10.23	1.12	14.49	1.22
2.0	1.03	0.57	3.19	0.76	9.15	1.00	12.96	1.09
1.5	0.89	0.49	2.77	0.66	7.92	0.86	11.22	0.94
1.0	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]	Flow rate Q [l/s]	Velocity v [m/s]	Flow rate Q [l/s]	Velocity v [m/s]	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 [bar]	
	Without socket clamp	With socket clamp
40	0.5	2.0
50	0.5	2.0
75	0.5	2.0
110	0.5	2.0
125	0.5	2.0
160	0.5	1.0
200	0.5	1.0
250	0.5	1.0
315	0.5	1.0

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



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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/ accesories 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.

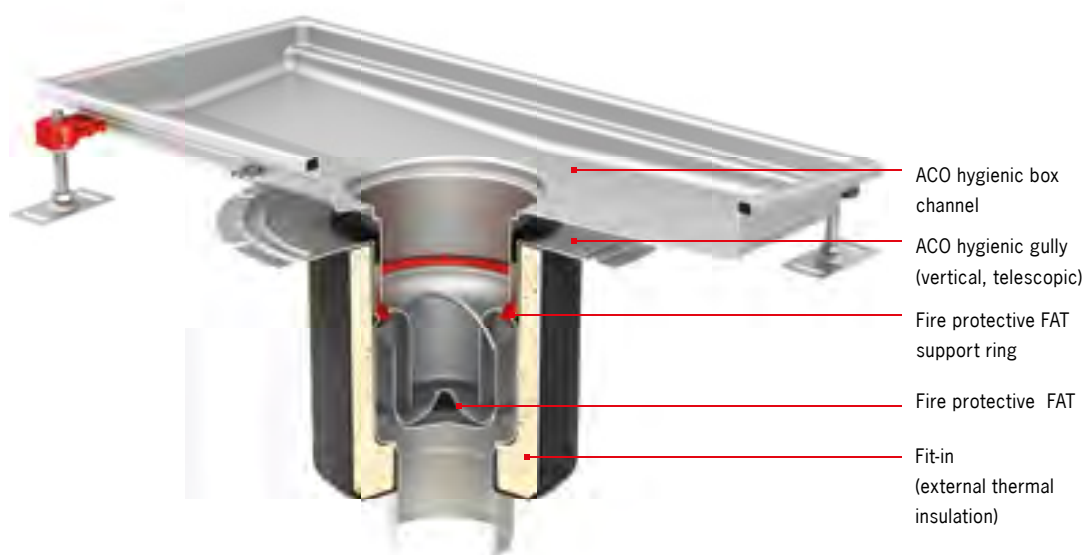
ACO fire protective kit can be used with telescopic vertical or fixed height vertical ACO hygienic gully and with ACO hygienic box channel, consisting of following items:

- 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!

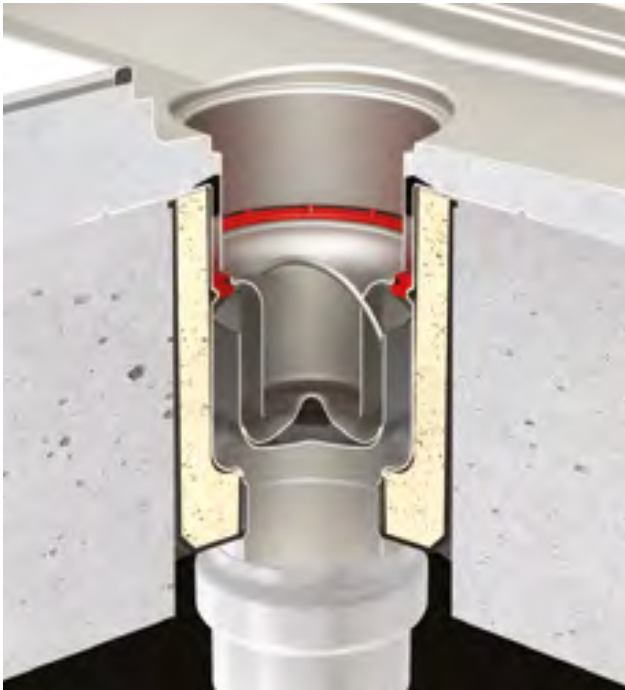
Tested at: PAVUS, a.s. protocol:
No. Pr-13-2.061



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

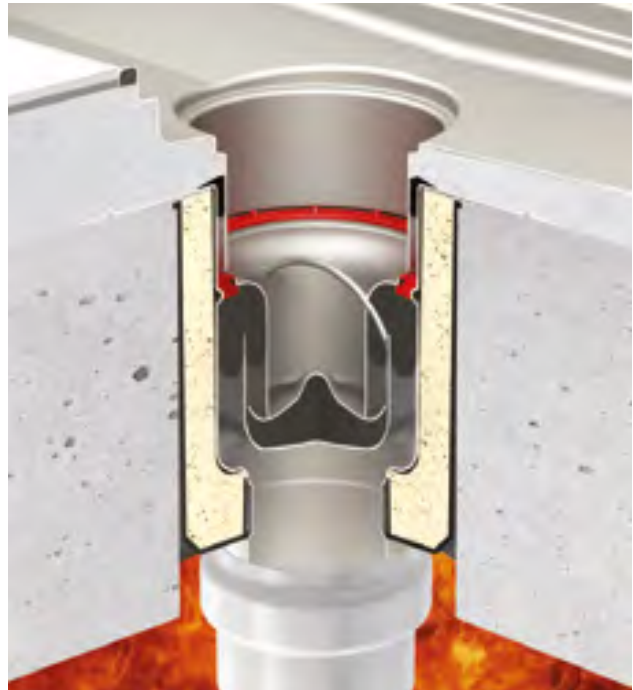
Classification according to EN 13 501, protocol: PK2-11-13-901-C-0

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).

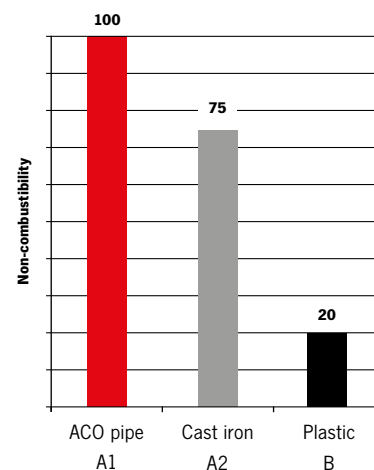
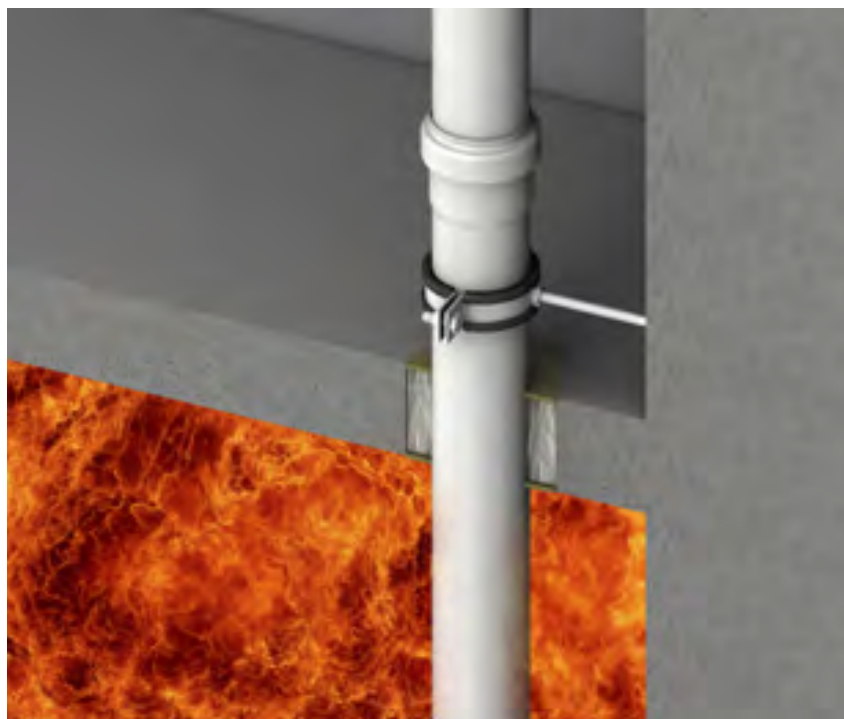
ACO pipe systems are certified also by SITAC authority as fire resistant (cert. no. 0410-01).

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

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

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.

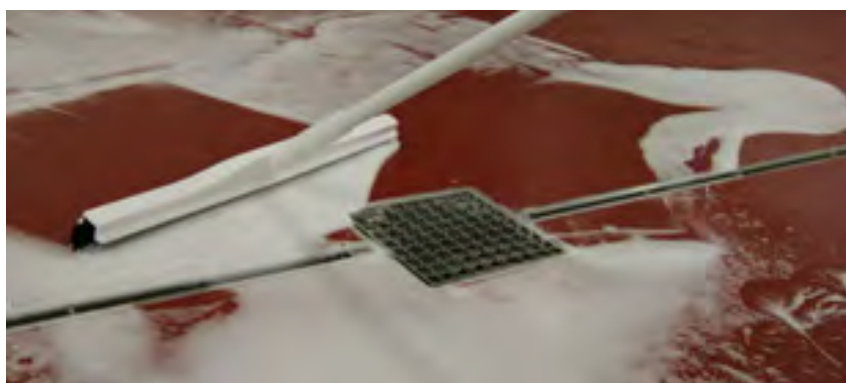
Effective cleaning of drainage in commercial food preparation business reduces risk of contamination and spoiling of food during preparation, processing, and storage. The main objective of cleaning is to remove soil to obtain clean surface and thereby reduce number of microorganisms. A further reduction 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 hazardous 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 necessary 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 areas 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 bio-films 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 personnel 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.
- 

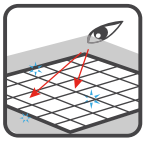
3 Remove excess dirt from floor and gratings, and place into designated container.
- 

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.
- 

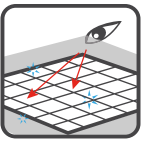
8 Rinse all surfaces with clean water.
- 

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	Procedure	Physical agents	Chemical agents	Examples of chemical cleaning agents suitable for ACO stainless steel drainage
Daily	Removal of organic deposits (fats, proteins, saccharides and polysaccharides)	▪ Steam ▪ Medium pressure water to max 25 bar ▪ Mechanical / kinetic energy (brushes, CIP medium velocity)	▪ Caustics (sodium hydroxide, potassium hydroxide) ▪ Detergents / surfactants	Standard chemical agents used for floor cleaning should be sufficient (should be validated) Oxofoam, Endorochlor (Diversey)
Weekly	Removal of inorganic deposits that could promote very resistant biofilms	Mechanical abrasive methods – polishing	▪ Nitric acid for stainless steel passivation where chlorine attack could be expected ▪ Inorganic acids (phosphoric acid) ▪ Weak organic acids	▪ Acifoam (Diversey) ▪ Acigel (Diversey) ▪ Super Dilac (Diversey)
Note	Removal of rinse water residues	Removal of excess water with a squeegee	Alcohols (isopropylalcohol, ethanol)	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-boarded 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-boarded to accept gully body



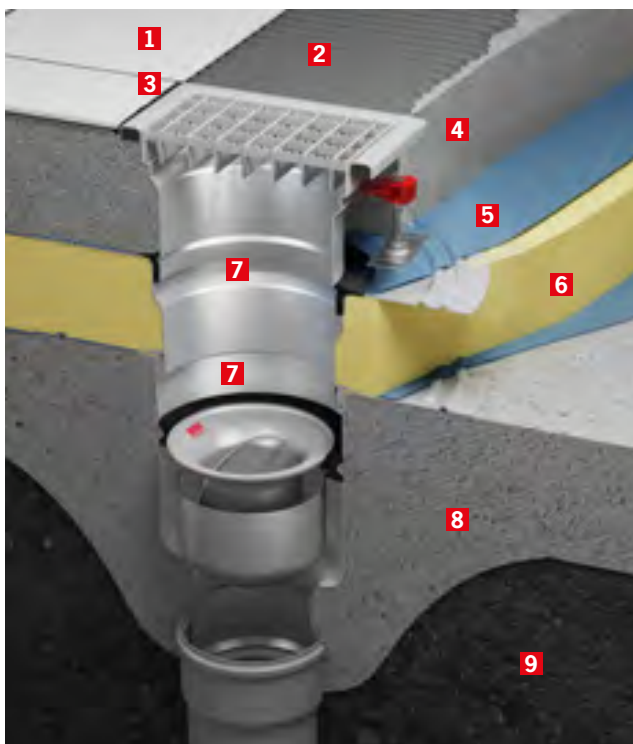
ACO hygienic gully – telescopic flanged gully installed in solid concrete floor

- 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** Damp proof membrane (DPM)
- 6** Gully
- 7** Outlet pipe
- 8** Floor slab
- 9** Compacted soil



ACO hygienic box channel

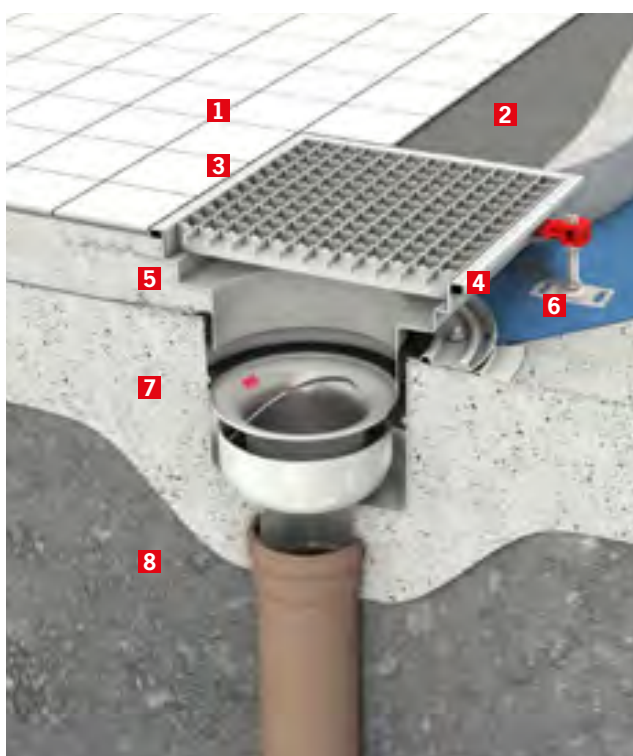
ACO hygienic box channel standard type – ACO hygienic gully with adhesive bonding flange (Tiled floor)

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



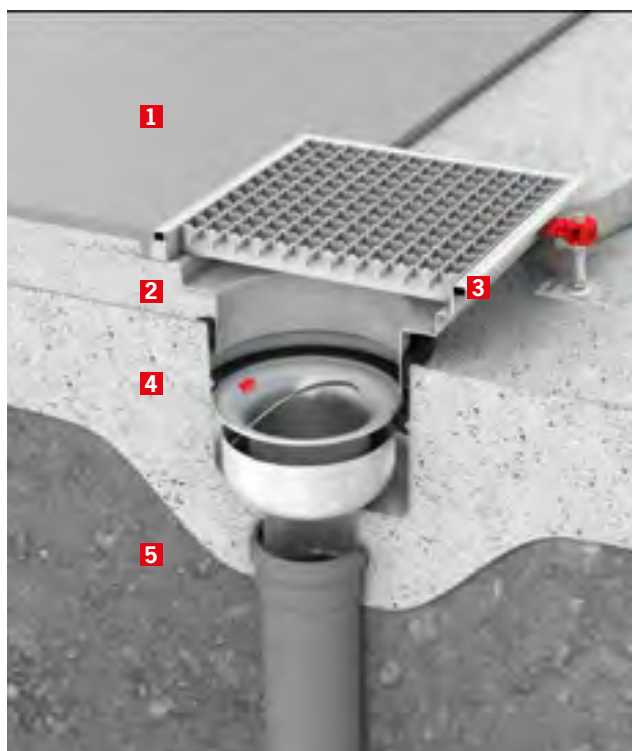
ACO hygienic box channel standard type – ACO hygienic gully with mechanical clamping flange (Tiled floor)

- 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



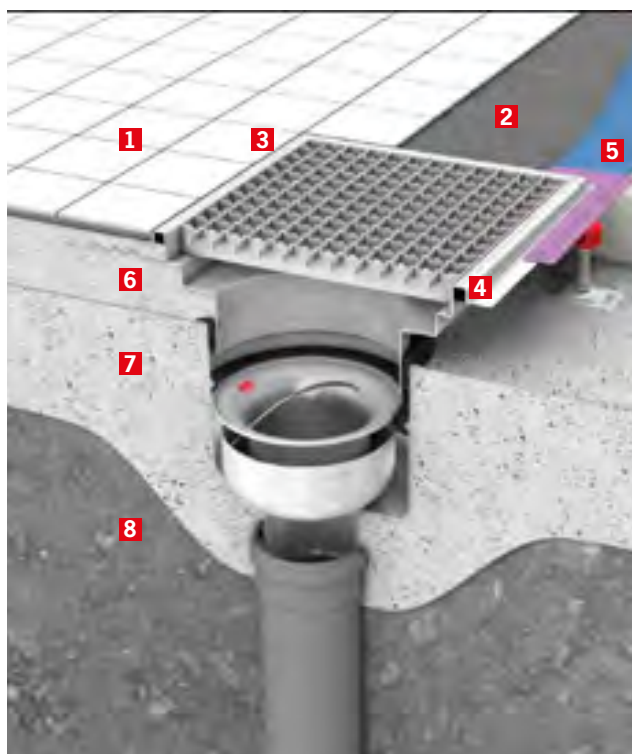
ACO hygienic box channel standard type – ACO hygienic gully with location flange (Resin floor)

- 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)

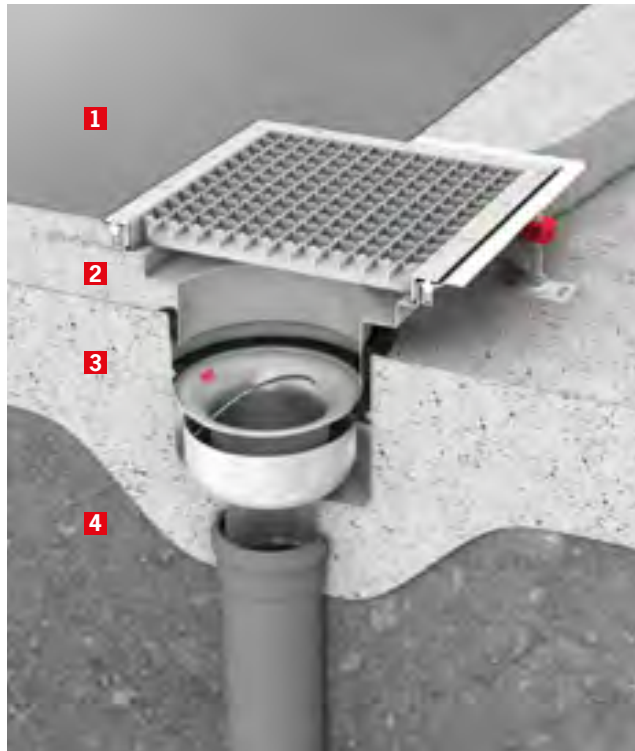
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Water proof membrane
- 6** Floor screed
- 7** Solid concrete floor slab
- 8** Compacted soil



ACO vinyl box channel

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

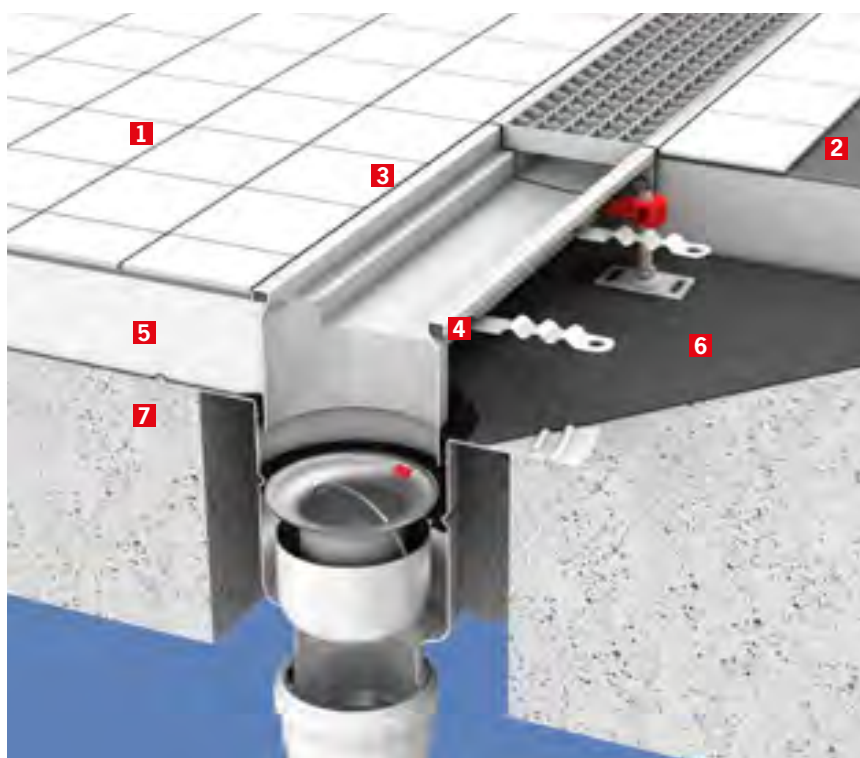
- 1** Vinyl floor
- 2** Floor screed
- 3** Solid concrete floor slab
- 4** Compacted soil



ACO modular box channel

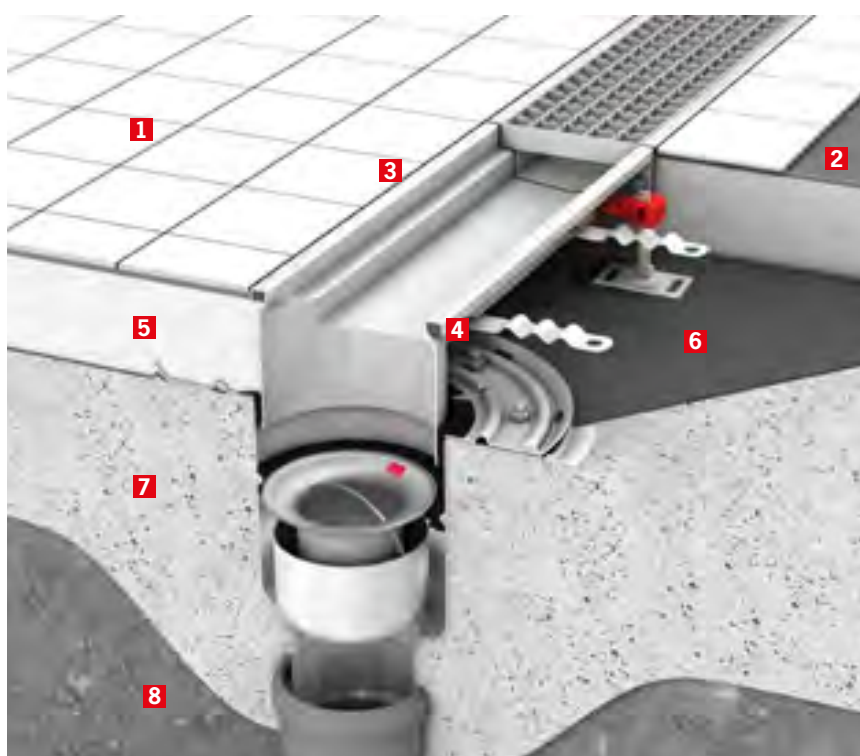
**ACO modular box channel standard type – ACO hygienic gully with adhesive bonding flange
(Tiled floor)**

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



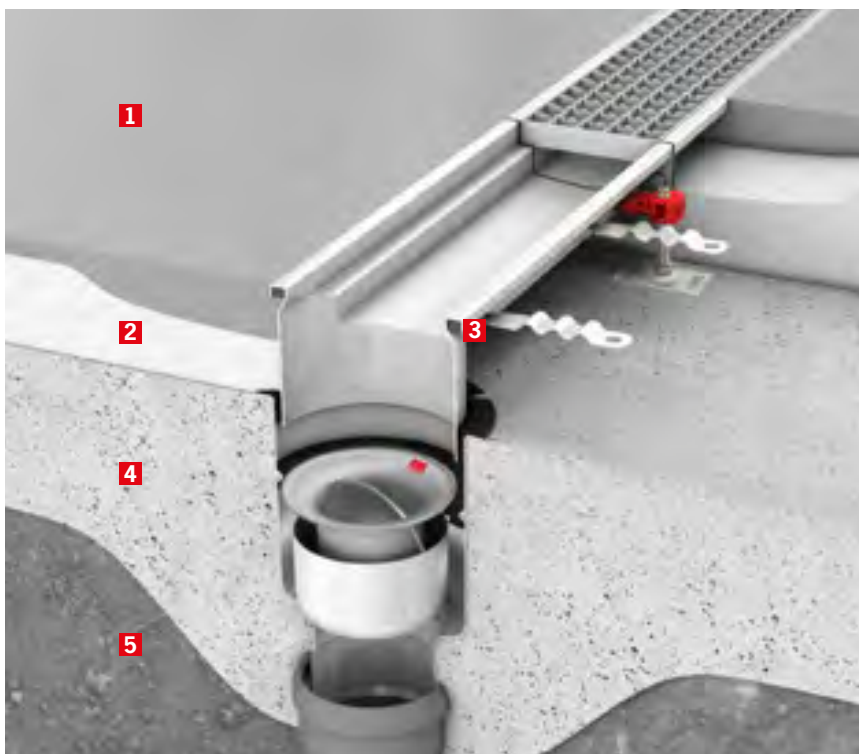
**ACO modular box channel standard type – ACO hygienic gully with mechanical clamping flange
(Tiled floor)**

- 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



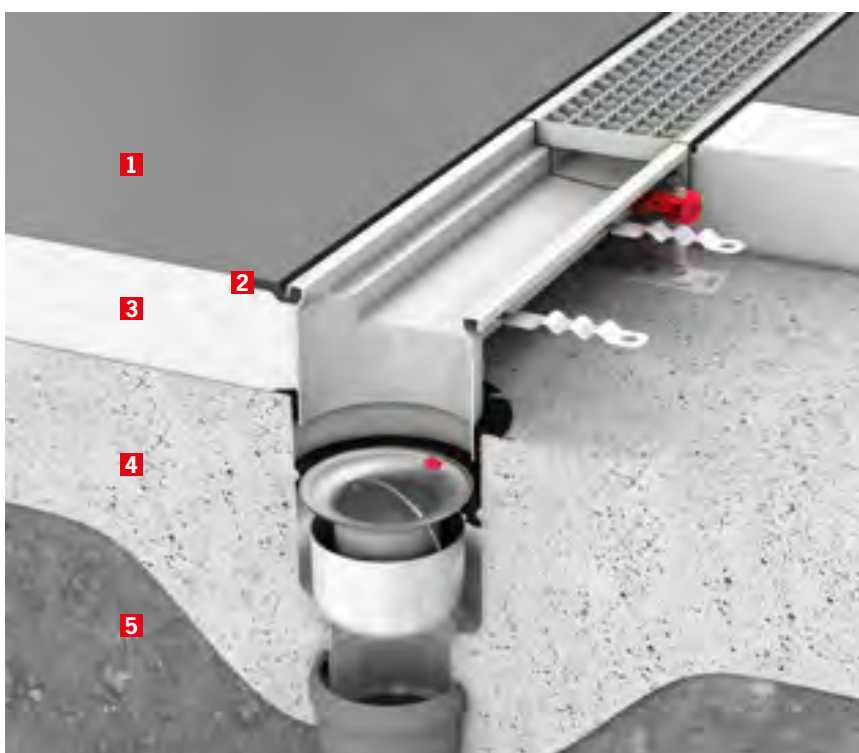
ACO modular box channel standard type – ACO hygienic gully with location flange (Resin floor)

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



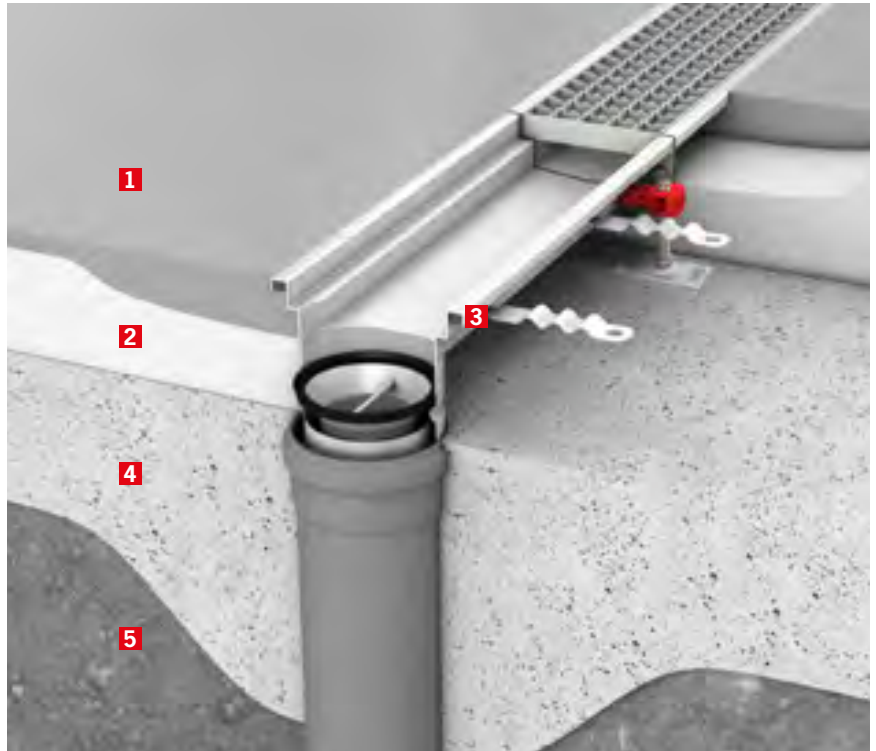
ACO modular box channel vinyl type – ACO hygienic gully with location flange (Vinyl floor)

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



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

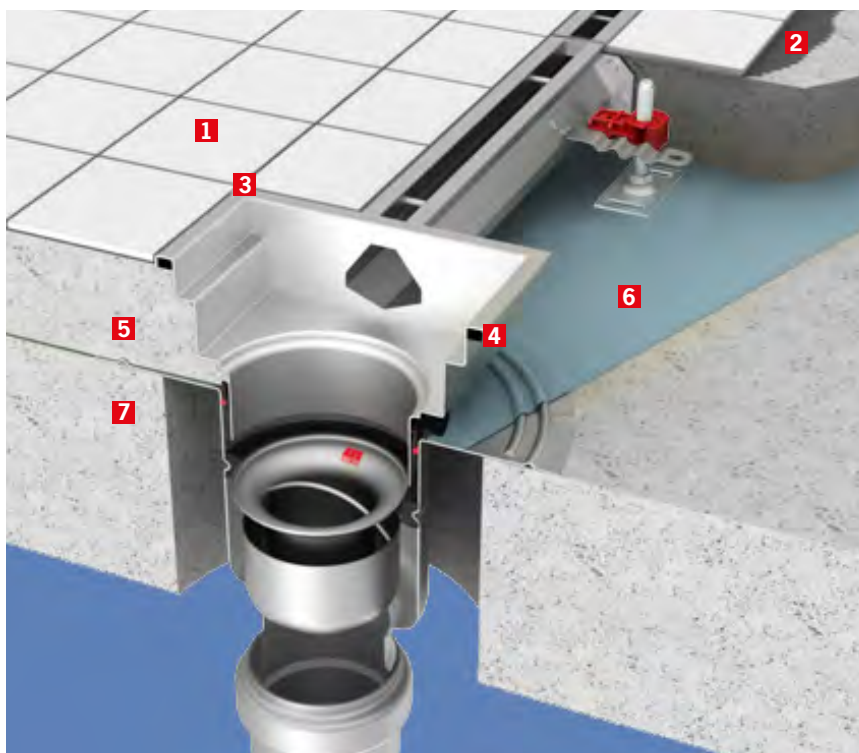
- 1** Epoxy/resin floor
- 2** Floor screed
- 3** Rubber infill
- 4** Solid concrete floor slab
- 5** Compacted soil



ACO modular slot channel

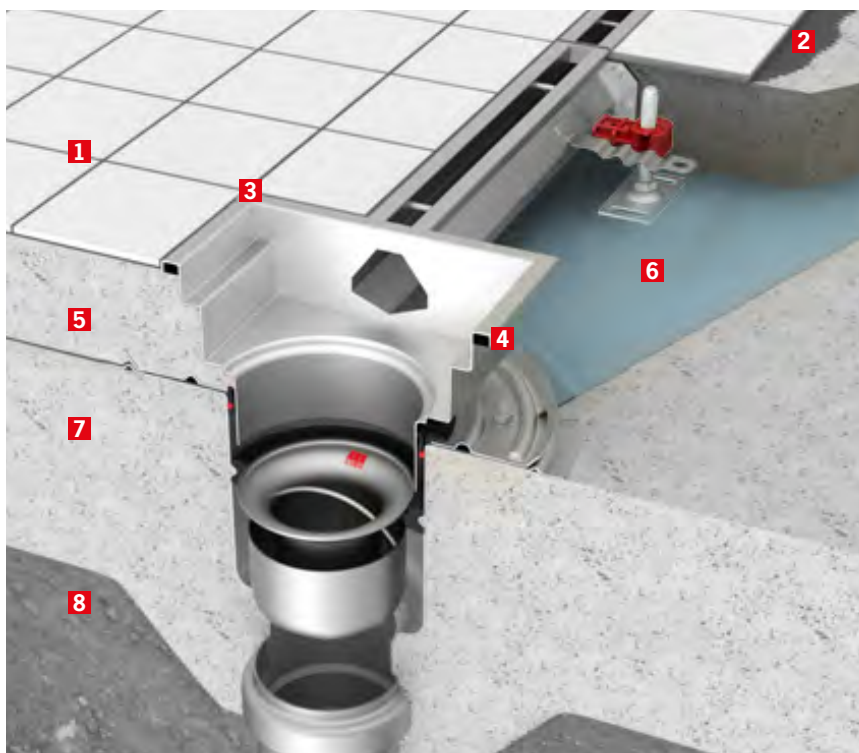
ACO modular slot channel standard type – ACO hygienic gully with adhesive bonding flange (Tiled floor)

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



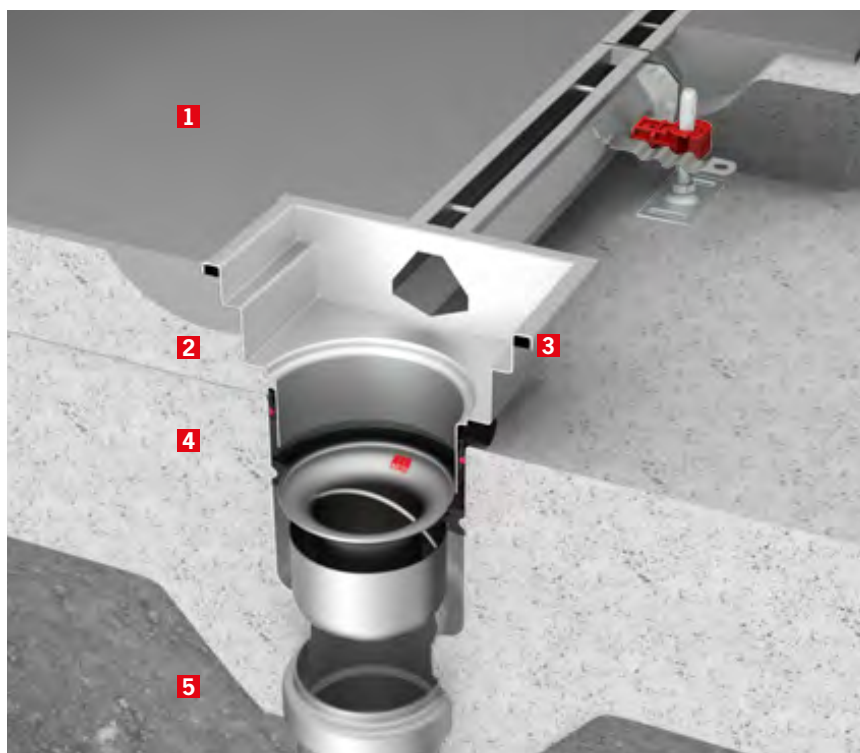
ACO modular slot channel standard type – ACO hygienic gully with mechanical clamping flange (Tiled floor)

- 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 slot 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 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.

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.



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 is 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.



Horizontal pipe runs

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

Pipe diameter bracket spacing

Pipe ø [mm]	Length [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 backfill 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

Features and 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

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

Resistance of Material

1 = Very good service to operating limit of material 2 = Moderate service 3 = Limited or variable service 4 = Unsatisfactory	AISI 316 L 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 acetat	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	-	-	-	-
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

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 L Stainless	AISI 304 Stainless	EPDM	NBR	FPM	TPEV
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
Natphalene	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
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
Propylene 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 hypochlorite	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
Stannous 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.

Rubber type	Sealing materials			
	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.

Notes

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ACO. The future of drainage.

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