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ACO Building Drainage

Gully Systems



Product catalogue

ACO Stainless Steel Gully Systems





ACO Building Drainage

Our built environment is becoming ever more complex. Applications are becoming more sophisticated and the increasing pressure of regulations and standards makes achieving design, performance and financial goals ever tougher.

Our mission: to eliminate design risk, to reduce installed and life cost and to deliver exceptional finish and performance in every product application.

Our global resources and fabrication capacity make it possible for us to deliver best value, both with our standard products and with our bespoke designs. Confidence is further assured with quality systems that are in accordance with ISO 9001-2008.

ACO Building Drainage is a division of ACO Technologies plc and part of the worldwide ACO Group. The Group has sales in excess of £600 million worldwide with production facilities in the UK, Germany, France, Switzerland, Denmark, Spain, Poland, Czech Republic, Australia and the USA. In total more than 3900 people are employed in over 40 countries throughout the world.

ACO Building Drainage

Enquiries Team:

Tel: +44(0)1462 810421
Fax: +44(0)1462 851490
Email: abdestimating@aco.co.uk

- A complete pricing service to stockists, contractors and clients.

ACO Building Drainage

Customer Services Team:

Tel: +44(0)1462 810411
Fax: +44(0)1462 851490
Email: abdcommercial@aco.co.uk

- Product availability, delivery lead times, and all other queries including collections, returns and product / service issues.

ACO Building Drainage

Design Services Team:

Tel: +44(0)1462 810431
Fax: +44(0)1462 851490
Email: abdtechnical@aco.co.uk

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

ACO Building Drainage

Marketing and Media Support

Tel: +44(0)1462 810400
Fax: +44(0)1462 851490
Email: abdmarketing@aco.co.uk

- For all product brochures, imagery or merchandising material requests.



collect:

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



clean:

- Grease Management Systems



hold:

- Anti-flood Backflow Protection Systems



release:

- Lifting Stations*

*Available in 2015

Office address and contact details:

ACO Building Drainage
ACO Business Centre
Caxton Road
Bedford
Bedfordshire
MK41 0LF

Tel: +44(0)1462 810400
Fax: +44(0)1462 851490
Email: abdinfo@aco.co.uk

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

www.acobd.co.uk

For quick access to our website, scan:



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System Overview

ACO Building Drainage Stainless Steel Gully Systems guarantee performance and quality by taking full advantage of the significant investment in our state-of-the-art manufacturing plants (which include deep drawing and automated robotic welding) and represent the accumulation of many years practical experience in stainless steel fabrication technologies and drainage design know-how.

A wide range of products present the designer and installer with literally hundreds of 'off the shelf' product combinations to meet every conceivable need or application. ACO gully systems fall into four main categories:

- Fixed height and telescopic gullies
- Rodding eyes
- Micro floor gullies
- Engineered solutions

Significant system advantages include:

- Fully tested and classified to BS EN 1253 – Gullies for Buildings
- Designed with stringent hygiene standards in mind
- Fully pickle passivated (see page 61)
- Extensive range covering all practical applications and for use with all floor finishes and vehicular traffic
- Smooth bowl shaped structures to minimise possible siltation



- High capacity flow rates available through integral removable foul air traps
- Unique optional grating security locks
- Wide grating choice

Should you find that our standard product offering does not meet your application requirements our Design Services Team can carry out design work on your behalf and provide you with custom made engineered solutions including tundishes, additional inlets, extended bodies or spigots and non-standard outlet sizes.

All ACO gully products are manufactured in corrosion resistant 304 or 316 grade austenitic

stainless steel that is fully pickle passivated to remove embedded iron and chromium-depleted weld zones. The enhanced corrosion resistance and extreme durability of fully pickle passivated stainless steel make the material suitable for many applications demanding a reliable, long-life performance.

Manufactured from a minimum 70% recycled materials, stainless steel contributes to a sustainable environment. Additionally stainless steel is 100% recyclable if products are ever removed or come to the end of their working life.



Hygienic Drainage Explained



The European Hygienic Engineering & Design Group (EHEDG) is a consortium of equipment manufacturers, food industries, research institutes as well as public health authorities and was founded in 1989 with the aim to promote hygiene during the processing and packing of food products.

The principal goal of EHEDG is the promotion of safe food by improving hygienic engineering and design in all aspects of food manufacture.

EHEDG actively supports European legislation, which requires that handling, preparation processing and packaging of food is done hygienically using hygienic machinery in hygienic premises (EC Directive 2006/42/EC for Machinery, EN 1672-2 and EN ISO 14159 Hygiene requirement).

ACO Building Drainage is a member of EHEDG and is actively supporting the setting up of a regional UK section.

Standards and accreditations

Hygienic standards

In order to maintain a clean and sustainable hygienic environment, it is essential that drainage elements should be designed and manufactured to rigorous standards to ensure bacteria and pathogen traps are minimised.

All ACO gullies are designed for optimum hygiene performance taking into account guidelines described in BS EN 1672 and BS EN ISO 14159 to minimise hygiene risk.

Slip resistance

The consequences of slips in food processing and kitchen areas can be very serious as accidents can easily occur involving high temperature foodstuffs and cooking surfaces. For applications where the potential for slipping is increased, enhanced slip resistant gratings should be considered. For this reason the ACO gully portfolio includes a range of slip resistant gratings.

Certification

ACO stainless steel gullies are manufactured and tested in accordance with BS EN 1253 – Gullies in buildings.

NBS specification

The ACO gully range should be specified in section R11:315. Assistance in completing this clause can be found in the ACO Building Drainage entry in NBS Plus, on our website www.acobuildingdrainage.co.uk/about-us/nbs-plus-product-specifications.aspx or please contact our Design Services Team on 01462 810400 or email abdtechnical@aco.co.uk.

Hygiene risk according to BS EN 1672 and BS EN ISO 14159	Acceptable according to BS EN 1672 and BS EN ISO 14159
<p>Not drainable design</p>	<p>Drainable design</p>
<p>Not drainable design</p>	<p>Drainable design</p>
<p>Continuously welded lap joint</p>	<p>Continuously welded butt</p>
<p>Welded in corners</p>	<p>Round internal corner</p>
<p>Welded in corners</p>	<p>Welded in smooth area</p>

Typical Applications

Commercial Kitchens



Industrial, Commercial and Infrastructure



Food Processing



Education and Leisure



Chemical and Pharmaceutical



Hospitals and Healthcare



Typical Applications

ACO Gully 157, 200, 218 and 357 - Fixed Height and Telescopic - Page 22



Typical applications:

- Commercial kitchens
- Food processing
- Brewing, bottling and canning plants
- Food distribution and warehousing
- Chemical, pharmaceutical and laboratories
- Education and leisure
- Hospitals, healthcare and mortuaries
- Animal healthcare

Key features:

- Hygienic design including large radii formed contours, deep-drawn components and minimal welds to minimise crevices and bacteria traps according to BS EN 1672 and BS EN ISO 14159*
 - Fully compliant to BS EN 1253
 - Stainless steel grades 304 or 316
 - Dry sump design ensures no standing waste water in gully base*
 - Fully removable and easily cleaned stainless steel foul air trap (FAT)
 - Removable hygienic and corrosion resistant Nitrile FAT support*
 - Removable sediment basket for debris collection
 - Wide range of gratings to Load Class L15 – M125 (BS EN 1253) or C250 (BS EN 124)
 - Designed for cementitious and resin screed, ceramic tile and vinyl sheet floors
 - DPM bonding flange available
- (*Not applicable to Gully 357)

ACO EG150 Gully - Page 14



Typical applications:

- Kitchens
- Pedestrian areas
- Light industrial use
- Shower areas
- Washdowns

Key features:

- Ø75mm horizontal or Ø110mm vertical spigot outlet
- Stainless steel grades 304 and 316
- Designed for cementitious and resin screed, ceramic tile and vinyl sheet floors
- DPM bonding flange available
- Three back inlets for additional connectivity
- 1.20l/s flow rate
- Removable foul air trap

ACO Engineered Solutions - Page 54



The ACO Building Drainage Design Services Team is staffed by engineers who can offer design and proven manufactured solutions to accommodate specific applications including:

- tundishes
- additional inlets
- extended spigots
- silt baskets

ACO Micro Floor gully - Page 12



Typical applications:

- Washrooms / toilet areas
- Plant rooms
- Terraces

Key features:

- Shallow light duty gully in stainless steel grade 304, ideal for installations with depth restrictions
- Vertical Ø40mm spigot outlet
- 0.24l/s flow rate
- Rodding access and foul air trap as standard

ACO Rodding Eyes - Page 13



Typical applications:

- Kitchens
- Food processing areas
- Brewing, bottling and canning plants
- Washrooms and shower areas
- Bin stores and wash down areas
- Hospitals and healthcare

Key features:

- Best suited to light duty applications
- EPDM double sealed rodding point with solid cover Class K3 to BS EN 1253
- Stainless steel grade 304
- Vertical Ø110mm spigot outlet

Load Class and Wheel Loads

The ACO Stainless Steel Gully systems conform to appropriate European standards in order to provide specifiers and installers with the confidence that products will achieve a known reliable performance.

The ACO Stainless Steel Gully systems have been tested in accordance with BS EN 1253¹.

The table below indicates a practical approximate comparison of Load Classes to aid specifiers select products appropriate to an application.



Application	EN 1433 (Drainage Channels) & EN 124 (Manhole & Gully Tops)	EN 1253 (Gullies for Buildings) * Draft prEN1253	FACTA Load Class	Slow Moving Wheel Load (Tonnes)	
				Pneumatic Tyres	Solid Tyres
	-	H1.5	-	Non-load bearing	
	A15	K3	-	0.15	N/A
		-	A	0.5	N/A
		L15	-	0.7	N/A
		-	AA	1.5	N/A
	B125	R50*	AAA	2.5	0.5
		M125	B	5.0	0.75
	C250	N250*	C	6.5	1.0
	D400	P400*	D	11.0	3.0
	E600	-	E	16.0	5.0

Standards references:

¹BS EN 1253 – Gullies for buildings.

BS EN 1433 - Drainage channels for vehicular and pedestrian areas.

Other useful references:

BS EN 124 - Gully tops and manhole tops for vehicular and pedestrian areas.

FACTA specification via <http://www.facta.org.uk/specification.pdf>

Specification and Product Selection Considerations

The steps below guide customers through ACO Gully product selection and specification ensuring that all application considerations are covered. The ACO Building Drainage Team can also provide a take-off (bill of materials) and estimating service based on your plan details.

Step 1 - Product application

Application	ACO Product Recommendation	Product Considerations	Page
<ul style="list-style-type: none"> Light duty application with depth restrictions 	<ul style="list-style-type: none"> ACO Micro Floor Gully 	<ul style="list-style-type: none"> 0.24l/s flow rate No debris collection Ø40mm vertical outlet 	12
<ul style="list-style-type: none"> Light duty application requiring access to end of pipe run 	<ul style="list-style-type: none"> ACO Rodding Eye 	<ul style="list-style-type: none"> Ø110mm vertical outlet Double EPDM seals 	13
<ul style="list-style-type: none"> Collection of condensate discharge 	<ul style="list-style-type: none"> ACO Condensate Gully 	<ul style="list-style-type: none"> Ø110mm horizontal outlet Choice of tundishes Suitable for tiled, cementitious and resin screed floors (includes membrane clamping flange) 	21
<ul style="list-style-type: none"> Installations requiring high capacity silt basket volume 	<ul style="list-style-type: none"> ACO Gully 157 	<ul style="list-style-type: none"> Optional 0.9 litres silt basket Fixed height Suitable for tiled, cementitious and resin screed floors 	28
	<ul style="list-style-type: none"> ACO Gully 200 	<ul style="list-style-type: none"> Complete with 2.7 litres silt basket Fixed height Suitable for tiled, cementitious and resin screed floors 	39
All other applications	Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk		



Step 2 - Floor finish

Ceramic/screed	Thin-bed	Vinyl/flexible
		
For tiled, resin screed or cementitious flooring	For thin-bed applications or tanked flooring	Mechanical clamp for reliable connection to vinyl flooring

Note: The product images shown above are from the ACO 157 and 218 Gully ranges

Specification and Product Selection Considerations

Step 3 - Floor composition

No waterproofing membrane		With waterproofing membrane	
Fixed height	Telescopic adjustable – location flange	Telescopic adjustable – adhesive bonding flange	Telescopic adjustable – mechanical clamping flange
<ul style="list-style-type: none"> • Fixed height construction • Easy installation • Suitable for areas where waterproofing is independent of the gully body 	<ul style="list-style-type: none"> • Use with gully tops • Adjustable height and full rotation of the gully top • Ideal for applications where final floor height unknown • Suitable for areas where waterproofing is independent of the gully body 	<ul style="list-style-type: none"> • Waterproofing connection by welding or adhesive bonding • Use with gully tops • Adjustable height and full rotation of the gully top • Ideal for applications where final floor height unknown 	<ul style="list-style-type: none"> • Waterproofing connection by mechanical clamping flange • Use with gully tops • Adjustable height and full rotation of the gully top • Ideal for applications where final floor height unknown

Step 3b - Floor composition requires raising rings

Telescopic adjustable – location flange	Telescopic adjustable – adhesive bonding flange	Telescopic adjustable – mechanical clamping flange
<ul style="list-style-type: none"> • Use with gully tops • Adjustable height and rotation • Increases overall height 	<ul style="list-style-type: none"> • Waterproofing connection by welding or adhesive bonding • Use with gully tops • Adjustable height and rotation • Increases overall height 	<ul style="list-style-type: none"> • Waterproofing connection by mechanical clamping flange • Use with gully tops • Adjustable height and rotation • Increases overall height

Step 4 - Connection orientation

Establish the location, size, orientation and invert depth (if appropriate) of slab/screed pipework as this will determine the type of gully.

Vertical outlet	Horizontal outlet

Note: The product images shown above are from the ACO 157 and 218 Gully ranges

Specification and Product Selection Considerations

Step 5 - Load class requirement and grating options

Description	Helpful Hints	General Considerations
<ul style="list-style-type: none"> Determine appropriate Load Class to BS EN 1253 and BS EN 124 for the application. 	<ul style="list-style-type: none"> Always allow for the highest loading and consider future use where possible. For industrial applications where pallet trucks and fork lift trucks may access the system, assess vehicle wheel loads as these can vary depending on the vehicle. 	<ul style="list-style-type: none"> Vehicles with solid tyres impart greater stress on gratings compared to pneumatic tyres. Do not use slip resistant gratings in vehicle turning areas.

Step 6 - Flow rate requirement

An important factor in the selection of the correct gully is the required flow rate. Flow rate is affected by several factors such as:

- Size and height of the gully body
- Use of silt basket and sieves
- Overall assembly height
- Outlet orientation

Please find below an indication of gully product range maximum flow rates

Product Range	Fixed Gullies	Telescopic Gullies	Page
ACO Micro Floor Gully	0 to 0.24l/s	-	12
ACO EG150 Gully	0 to 1.20l/s	0 to 1.20l/s	14
ACO Condensate Gully	-	0 to 1.20l/s	21
ACO Gully 157	0 to 3.50l/s	0 to 4.20l/s	26
ACO Gully 200	0 to 4.00l/s	-	39
ACO Gully 218	0 to 5.00l/s	0 to 6.30l/s	40
ACO Gully 357	0 to 10.00l/s	-	51

Step 7 - Debris collection

For the collection of solid particles ACO Gully 157, 200, 218 and 357 can be supplied with an optional silt basket.

	Gully 157		Gully 200	Gully 218		Gully 357	
Silt basket							
Type of spigot	Horizontal	Vertical	Horizontal & Vertical	Horizontal	Vertical	Horizontal	Vertical
Capacity (litres)	0.30 / 0.90*	0.60 / 0.90*	2.70	0.70	1.40	9.00	9.50

*0.90 capacity silt basket available with ACO Gully 157 - fixed height free-standing for increased sediment basket volume applications (page XX).

Note: Silt baskets not available with ACO Micro Floor Gullies and ACO EG150 Gullies.

ACO Micro Floor Gullies

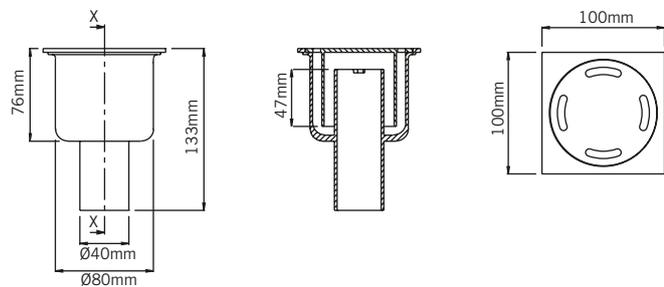
Features and benefits

The Micro Floor Gully is a light duty, compact trapped drain manufactured from Grade 304 stainless steel. Designed to provide discrete drainage for washrooms, toilet areas and plant rooms. An invert depth of just 76mm makes it ideal for use in areas where depth is restricted or for refurbishment work where excavation can be kept at a minimum.

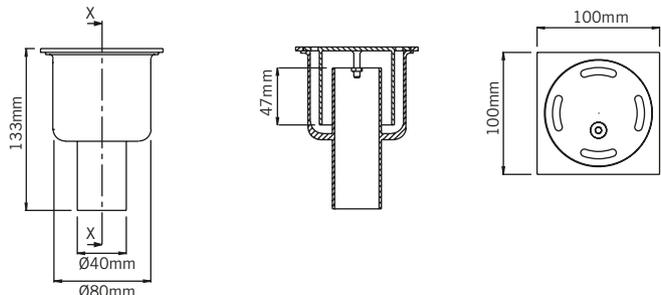
- 1** The gully is supplied with a circular grating located in a 100mm square top. Optional lockable grating is also available.
- 2** The foul air trap is an integral part of the grating and allows full rodding access to the drainage pipework and eradicates the need for additional rodding eyes.
- 3** Suitable for use with cementitious/resin screed and tile applications.
- 4** Complete with fixing tangs with earth wire connections.
- 5** 50mm water seal depth meets requirements of BS EN 1253.
- 6** Compact unit 133mm overall depth.
- 7** Vertical Ø40mm spigot outlet allowing easy connection to existing pipework with either push fit or compression fittings.



ACO Micro Floor Gullies



Part No	Description MG100FSV/40	Load class	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
04156	Micro Floor Gully FXD Vertical Outlet non-locked S/S 304	K3	100×100	Ø80	133	Ø40	0.24	0.35



Part No	Description MGL100FSV/40	Load class	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
04157	Micro Floor Gully FXD Vertical Outlet locked S/S 304	K3	100×100	Ø80	133	Ø40	0.24	0.35

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Rodding Eyes

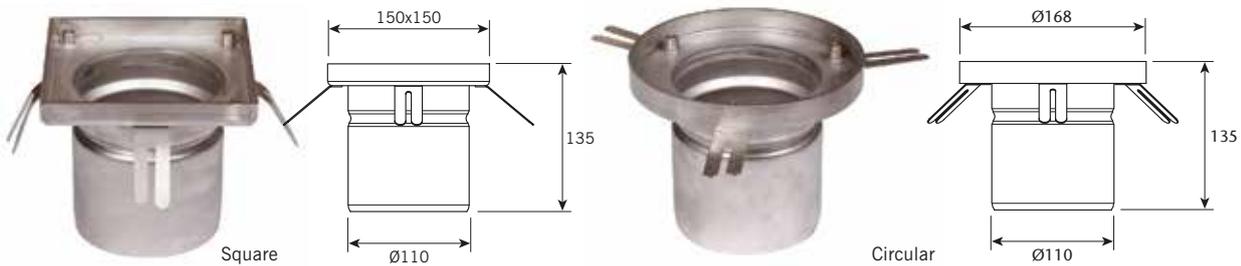
Features and benefits

ACO Rodding Eyes are ideal for light duty applications. Manufactured from stainless steel grade 304 they have an EPDM double seal and solid cover to BS EN 1253.

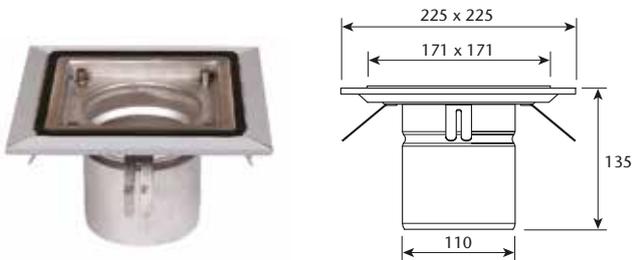
- 1** Rodding Eyes supplied with either square or circular cover dependant upon floor finish.
- 2** Complete with fixing tangs.
- 3** Untrapped.
- 4** Vertical Ø110mm outlet spigot.



ACO Rodding Eye Gully Bodies



Part No	Description	Top Size (mm)	Depth overall (mm)	Spigot dia (mm)	Weight (kg)
104010	Rodding Eye Vertical Gully S/S 304 (Square Top) (tiled, resin and cementitious floors) (Gully only)	150 x 150	135	Ø110	1.70
104004	Rodding Eye Vertical Gully S/S 304 (Circular Top) (resin and cementitious floors) (Gully only)	Ø168	135	Ø110	1.00



Part No	Description	Top Size (mm)	Depth overall (mm)	Spigot dia (mm)	Weight (kg)
105070	Rodding Eye Vertical Gully S/S 304 (Square Top) (vinyl floors) (Gully only)	225 x 225	135	Ø110	1.50

Foul Air Trap not required for ACO Rodding Eye Gullies.

ACO Rodding Eye Gully Solid Covers



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
105049	Circular Solid Cover* S/S 304	Linished	K3	-	Ø168	-	0.90
105054	Square Solid Cover* S/S 304	Linished	K3	150	150	-	0.86

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

*Complete with double EPDM seal

ACO EG150 Gully

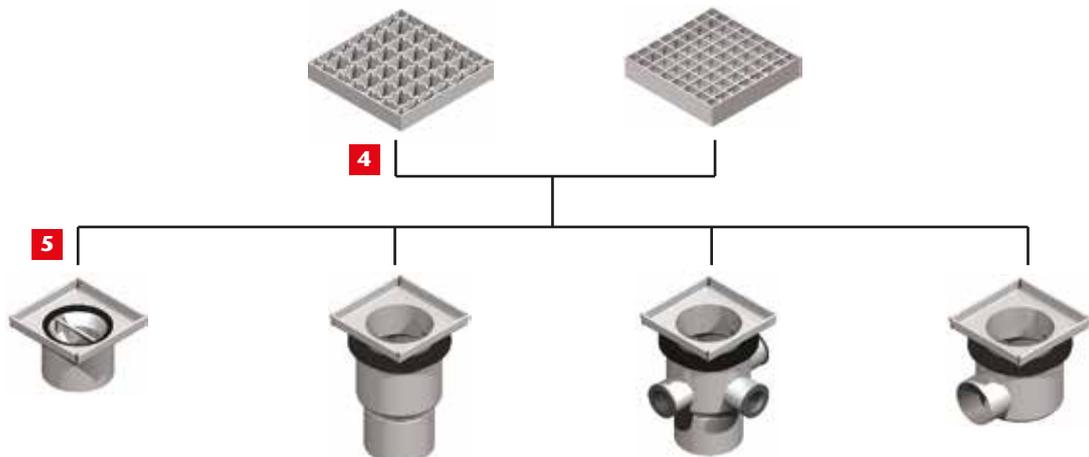
Product range overview

- 1** Gullies for cementitious/resin screed and tile applications with perforated grating (page 17).
- 3** Gullies for vinyl sheet flooring (page 16).
- 5** Gullies for cementitious/resin screed and tile applications with top for mesh grate (page 19).
- 4** Mesh gratings for cementitious/resin screed and tile applications (page 20).

ACO EG150 Gully - complete



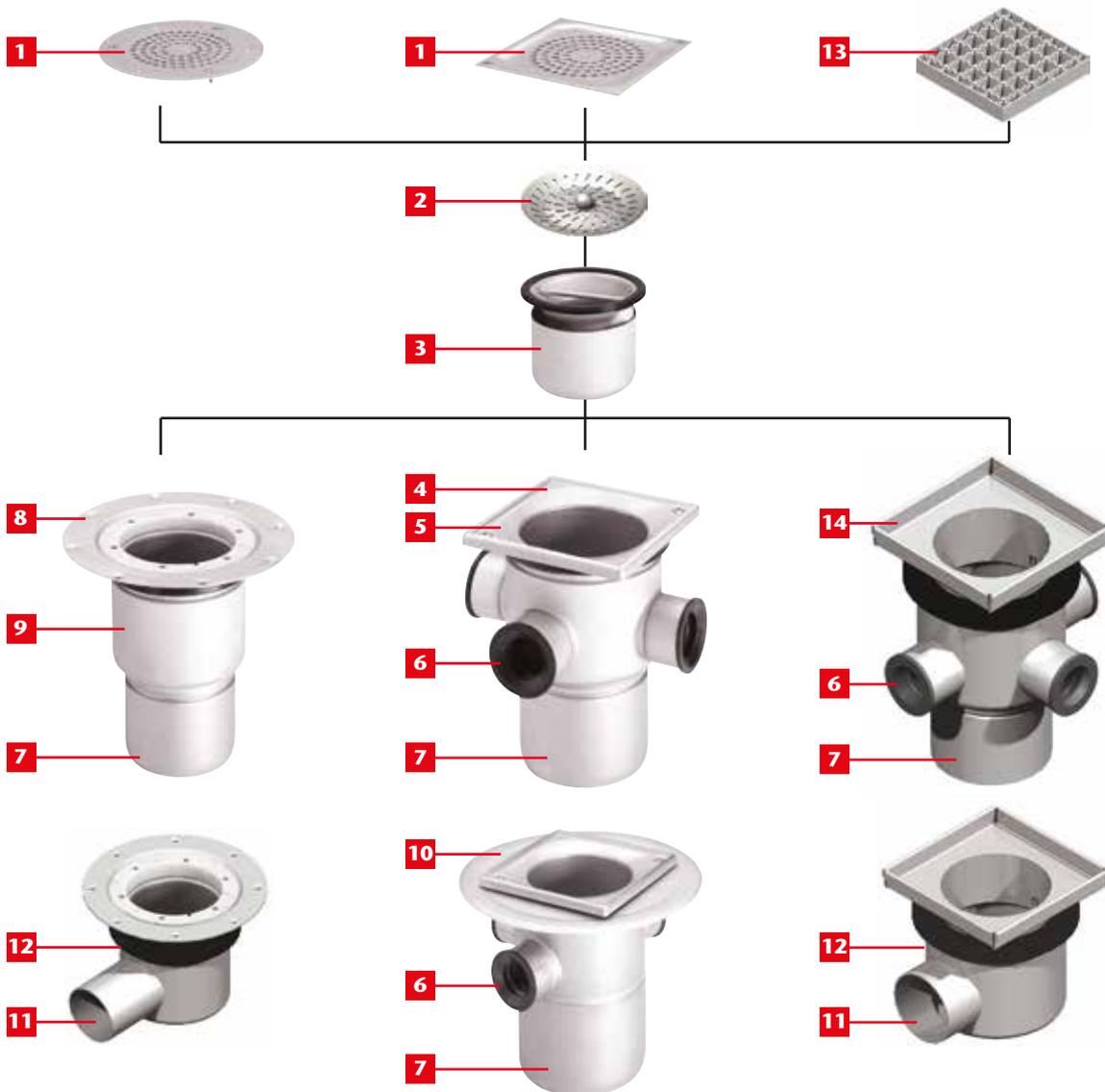
ACO EG150 Gully - 2 part system



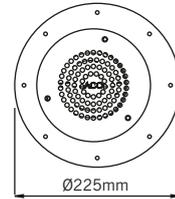
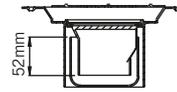
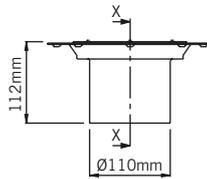
ACO EG150 Gully

Features and benefits

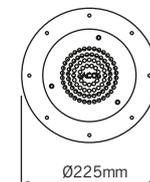
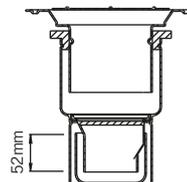
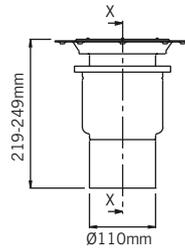
- 1** Perforated grating fitted as standard for pedestrian applications. Load class K3 to BS EN 1253.
- 2** Removable sieve (optional).
- 3** Removable in-line foul air trap fitted as standard, flow rate 1.2 l/s. 50mm water seal meets requirements of BS EN 1253.
- 4** Telescopic height variant providing full 360° rotation and +/- 7.5° pitch and roll adjustment.
- 5** Smooth contour design minimises bacteria traps.
- 6** 3 back inlet variant available supplied with fully interchangeable adaptors to suit 32mm / 1.25" to BS 5254 and 40mm / 1.5" to BS 5255 waste pipes.
- 7** Ø110mm vertical spigot outlet.
- 8** Clamp for vinyl flooring.
- 9** End stops provided to prevent accidental dismantling on telescopic variants.
- 10** Damp proof membrane bonding flanges available for the ultimate in sub-floor security.
- 11** Available with Ø75mm horizontal spigot outlet.
- 12** Shallow gully option, ideal for suspended floor or other restricted depth applications.
- 13** Mesh grating for cementitious / resin screed and tiled applications (2 part system).
- 14** Gullies for cementitious / resin screed and tiled applications.



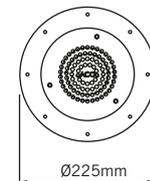
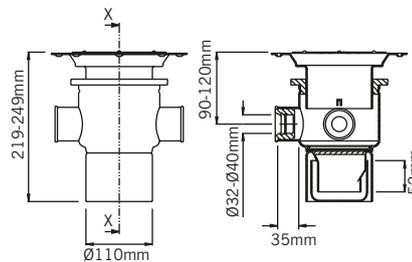
ACO EG150 Gully (for vinyl sheet flooring)



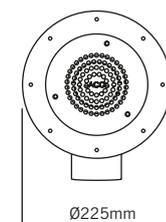
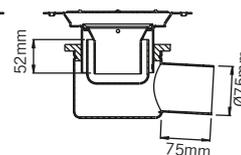
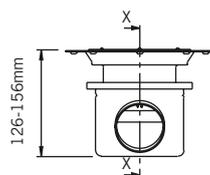
Part No	Description EG150FVL/VNL/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97212	EG150 FXD Vertical Outlet Low Level S/S 304	K3	Ø225	112	Ø110	1.2	1.45
97262	EG150 FXD Vertical Outlet Low Level S/S 316	K3	Ø225	112	Ø110	1.2	1.45



Part No	Description EG150TV/VNL/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97207	EG150 TELE Vertical Outlet S/S 304	K3	Ø225	219 - 249	Ø110	1.2	2.30
97257	EG150 TELE Vertical Outlet S/S 316	K3	Ø225	219 - 249	Ø110	1.2	2.30

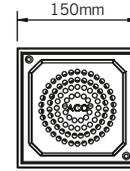
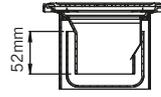
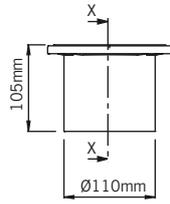


Part No	Description EG150TV3i/VNL/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97209	EG150 TELE Vertical Outlet with 3 Inlets S/S 304	K3	Ø225	219 - 249	Ø110	1.2	2.70
97259	EG150 TELE Vertical Outlet with 3 Inlets S/S 316	K3	Ø225	219 - 249	Ø110	1.2	2.70



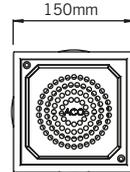
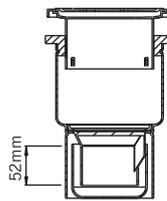
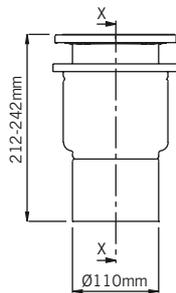
Part No	Description EG150THL/VNL/75	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97208	EG150 TELE Horizontal Outlet S/S 304	K3	Ø225	126 - 156	Ø75	1.2	2.30
97258	EG150 TELE Horizontal Outlet S/S 316	K3	Ø225	126 - 156	Ø75	1.2	2.30

ACO EG150 Gully (for cementitious/resin screed and tiled floors)



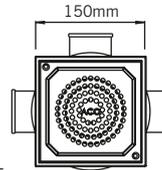
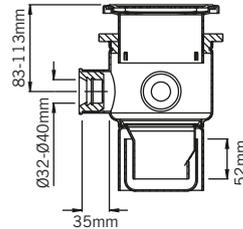
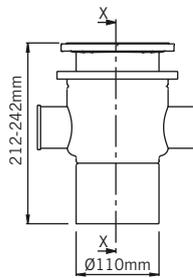
FAT included

Part No	Description EG150FVL/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97211	EG150 FXD Vertical Outlet Low Level S/S 304	K3	150×150	105	Ø110	1.2	1.30
97261	EG150 FXD Vertical Outlet Low Level S/S 316	K3	150×150	105	Ø110	1.2	1.30



FAT included

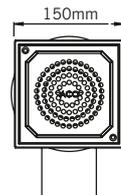
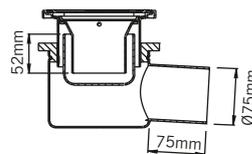
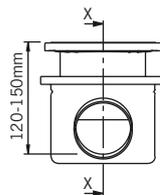
Part No	Description EG150TV/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97200	EG150 TELE Vertical Outlet S/S 304	K3	150×150	212 - 242	Ø110	1.2	1.70
97250	EG150 TELE Vertical Outlet S/S 316	K3	150×150	212 - 242	Ø110	1.2	1.70



FAT included

Part No	Description EG150TV3i/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97202	EG150 TELE Vertical Outlet with 3 Inlets S/S 304	K3	150×150	212 - 242	Ø110	1.2	2.50
97252	EG150 TELE Vertical Outlet with 3 Inlets S/S 316	K3	150×150	212 - 242	Ø110	1.2	2.50

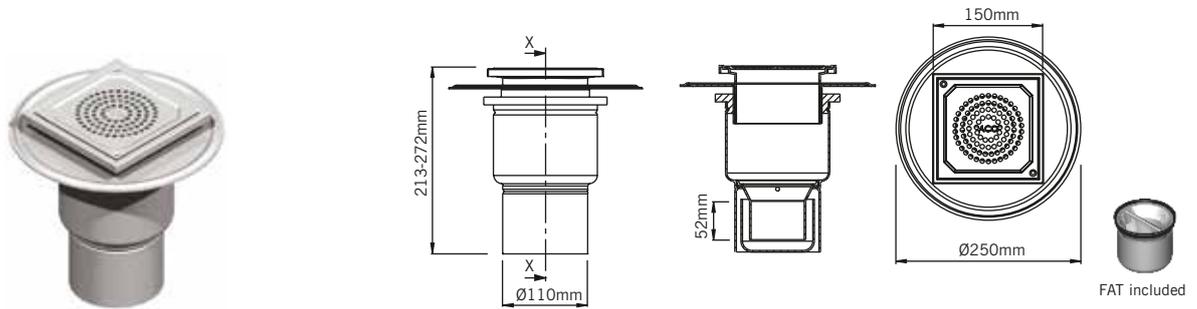
ACO EG150 Gully (for cementitious/resin screed and tiled floors)



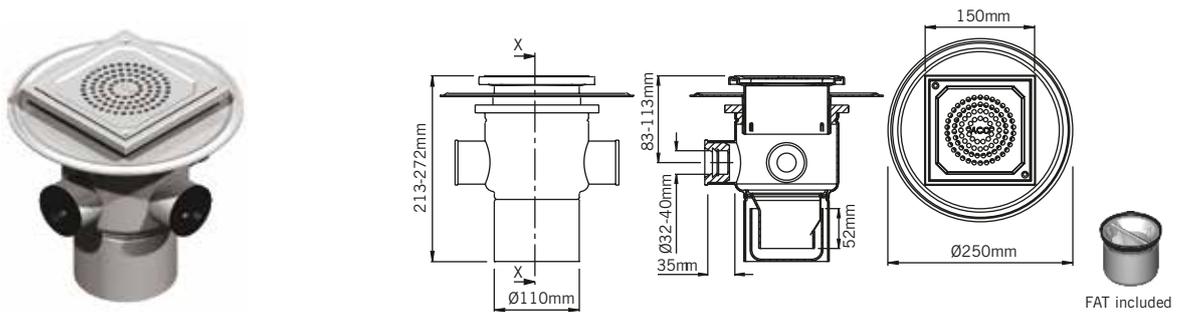
FAT included

Part No	Description EG150THL/75	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97201	EG150 TELE Horizontal Outlet Low Level S/S 304	K3	150×150	120 - 150	Ø75	1.2	2.20
97251	EG150 TELE Horizontal Outlet Low Level S/S 316	K3	150×150	120 - 150	Ø75	1.2	2.20

ACO EG150 Gully (for damp proof membrane bonding)

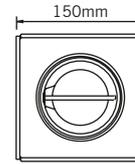
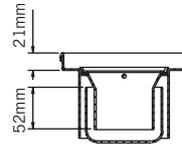
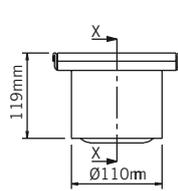


Part No	Description	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97216	EG150 TVB/110 EG150 TELE Vertical Outlet with Bonding Flange S/S 304	K3	150×150	213 - 272	Ø110	1.2	2.60
97266	EG150 TELE Vertical Outlet with Bonding Flange S/S 316	K3	150×150	213 - 272	Ø110	1.2	2.60



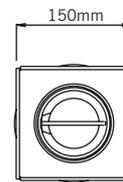
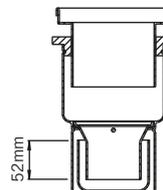
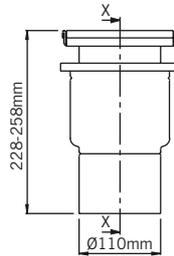
Part No	Description	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97205	EG150 TVB3/110 EG150 TELE Vertical Outlet with Bonding Flange and 3 Inlets S/S 304	K3	150×150	213 - 272	Ø110	1.2	2.95
97255	EG150 TELE Vertical Outlet with Bonding Flange and 3 Inlets S/S 316	K3	150×150	213 - 272	Ø110	1.2	2.95

ACO EG150 Gully, 2 Part System (for cementitious/resin screed and tiled floors with top for mesh grate)



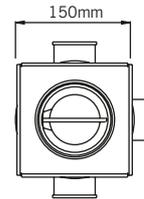
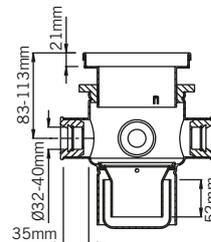
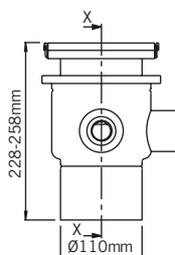
FAT included

Part No	Description EG150FVLM/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
400834	EG150 FXD Vertical Outlet Low Level S/S 304 (Gully only)	K3	150x150	119	Ø110	1.2	1.00
400835	EG150 FXD Vertical Outlet Low Level S/S 316 (Gully only)	K3	150x150	119	Ø110	1.2	1.00



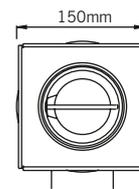
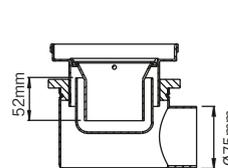
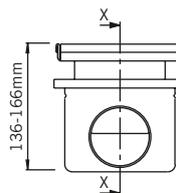
FAT included

Part No	Description EG150TVM/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97296	EG150 TELE Vertical Outlet S/S 304 (Gully only)	K3	150x150	228 - 258	Ø110	1.2	1.85
97298	EG150 TELE Vertical Outlet S/S 316 (Gully only)	K3	150x150	228 - 258	Ø110	1.2	1.85



FAT included

Part No	Description EG150TVM3i/110	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97312	EG150 TELE Vertical Outlet with 3 Inlets S/S 304 (Gully only)	K3	150x150	228 - 258	Ø110	1.2	2.20
97314	EG150 TELE Vertical Outlet with 3 Inlets S/S 316 (Gully only)	K3	150x150	228 - 258	Ø110	1.2	2.20

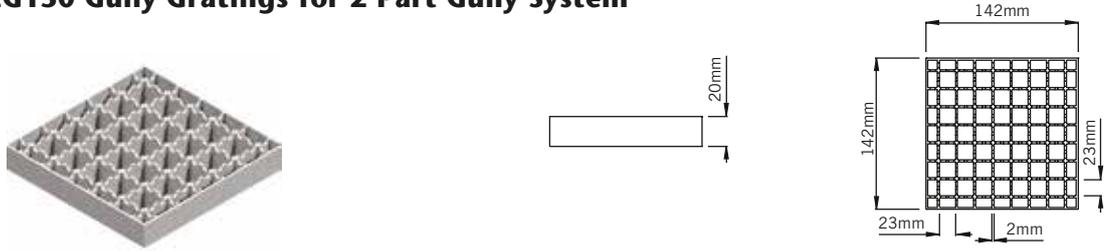


FAT included

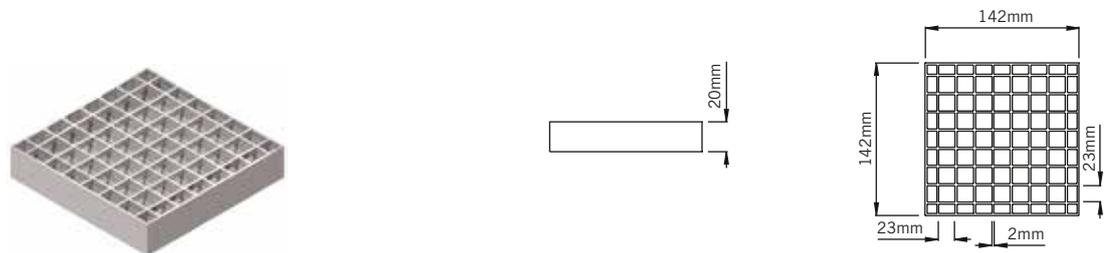
Part No	Description EG150THLM/75	Load class	Top size (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
97308	EG150 TELE Horizontal Outlet S/S 304 (Gully only)	K3	155x155	136 - 166	Ø75	1.2	1.85
97310	EG150 TELE Horizontal Outlet S/S 316 (Gully only)	K3	155x155	136 - 166	Ø75	1.2	1.85

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO EG150 Gully Gratings for 2 Part Gully System

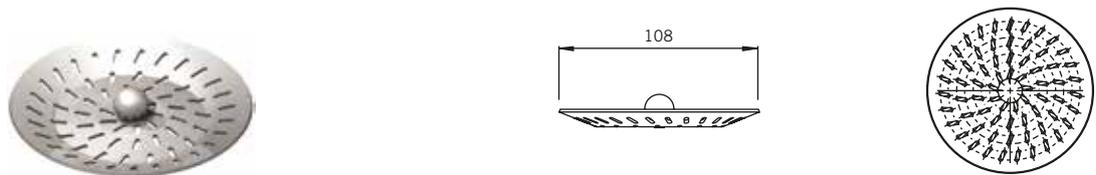


Part No	Description EG150SR	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
05964	Slip Resistant Mesh S/S 304	Electro Polished	K3	142	142	20	0.54
15964	Slip Resistant Mesh S/S 316	Electro Polished	K3	142	142	20	0.54

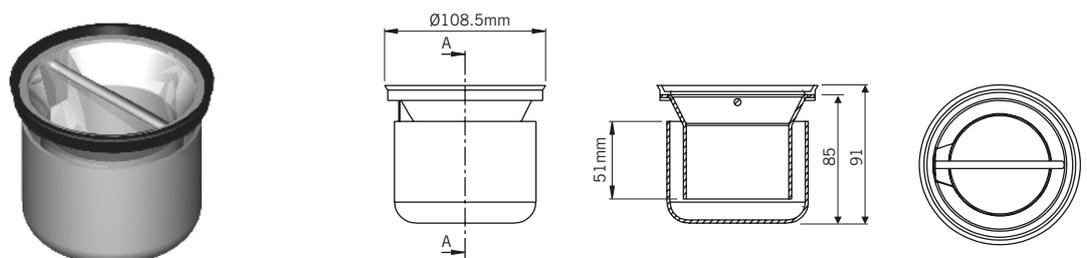


Part No	Description EG150PL	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
05965	Plain Mesh S/S 304	Electro Polished	K3	142	142	20	0.58
15965	Plain Mesh S/S 316	Electro Polished	K3	142	142	20	0.58

ACO EG150 Accessories and Replacement Parts



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
97235	Sieve S/S 304	-	Ø104.5	5.0	-	0.10
97285	Sieve S/S 316	-	Ø104.5	5.0	-	0.10



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
97217	Foul Air Trap 110mm Outlet S/S 304	-	Ø108.5	91.0	1.2	0.30
97267	Foul Air Trap 110mm Outlet S/S 316	-	Ø108.5	91.0	1.2	0.30

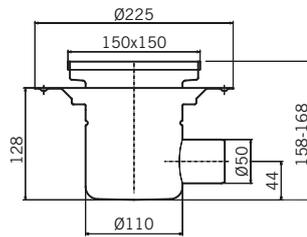
Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Condensate Gully

NEW!

Features and benefits

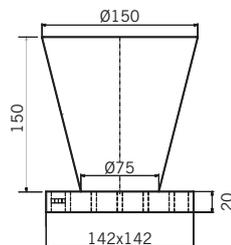
- Ideal for the collection of condensate discharge.
- Fully removable and easily cleaned stainless steel foul air trap (FAT).
- 304 stainless steel gully fully compliant to BS EN 1253.
- Compact gully body with horizontal 50mm spigot outlet.
- Complete with membrane clamp.
- Available in 316 stainless steel to special order.
- 1.2 l/s flow rate.
- Combined tundish/Ladder grating options.



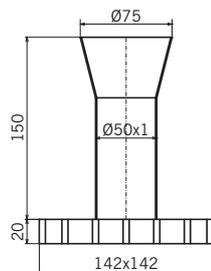
FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
416417	Condensate Gully TELE Horizontal Outlet S/S 304	150 x 150	110	158 - 168	50	1.2	1.90

Note: For optional sieve and replacement foul air trap please refer to page 20.



Part No	Description	Finish	Top Size (mm)	Entry Dia (mm)	Tundish Height (mm)	Weight (kg)
416418	Ladder Grate and 150mm Dia Mounted Tundish S/S 304	Pickled	142 x 142	150	150	1.60



Part No	Description	Finish	Top Size (mm)	Entry Dia (mm)	Tundish Height (mm)	Weight (kg)
416570	Ladder Grate and 75mm Dia Mounted Tundish S/S 304	Pickled	142 x 142	75	150	1.60

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 157, 200 and 218

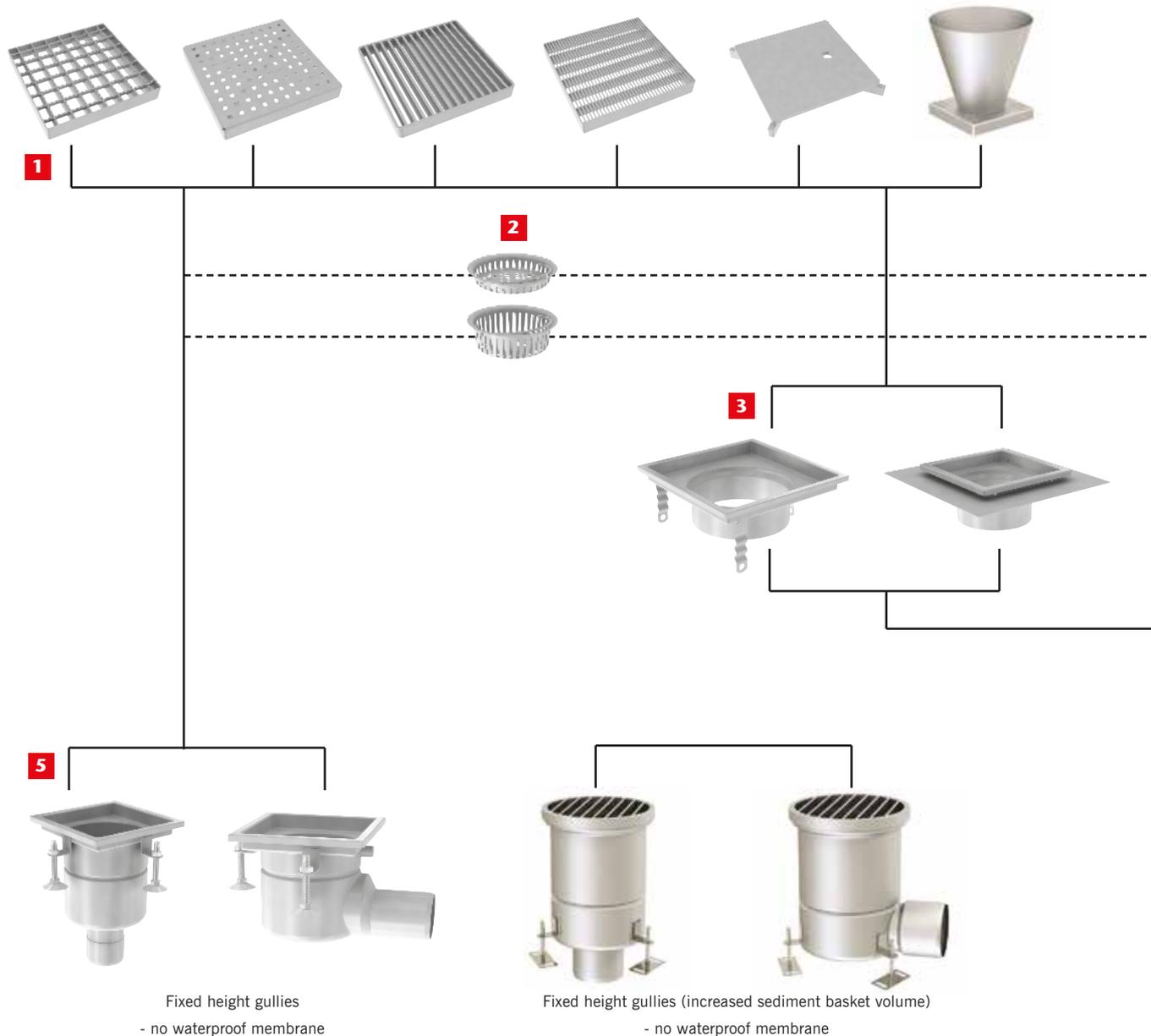
Product range overview

- 1** Gratings
- 2** Silt baskets
- 3** Gully tops
- 4** Raising pieces
- 5** Gully bodies for fixed height
- 6** Gully bodies for telescopic adjustable gullies

ACO Gully 157, 200 and 218 are designed to be used in applications where hygiene, durability and performance requirements are paramount. Available in both stainless steel grades 304 and 316 the range comprises of a variety of different product choices. 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.

As shown below, four generic gully configurations are available.

Fixed height gullies are convenient, free-standing units suitable for cementitious, resin or tiled floors. Telescopic gullies can be installed either with ACO gully tops or with ACO stainless steel linear drainage channels in most flooring constructions, including floors with waterproofing membranes.



User benefits

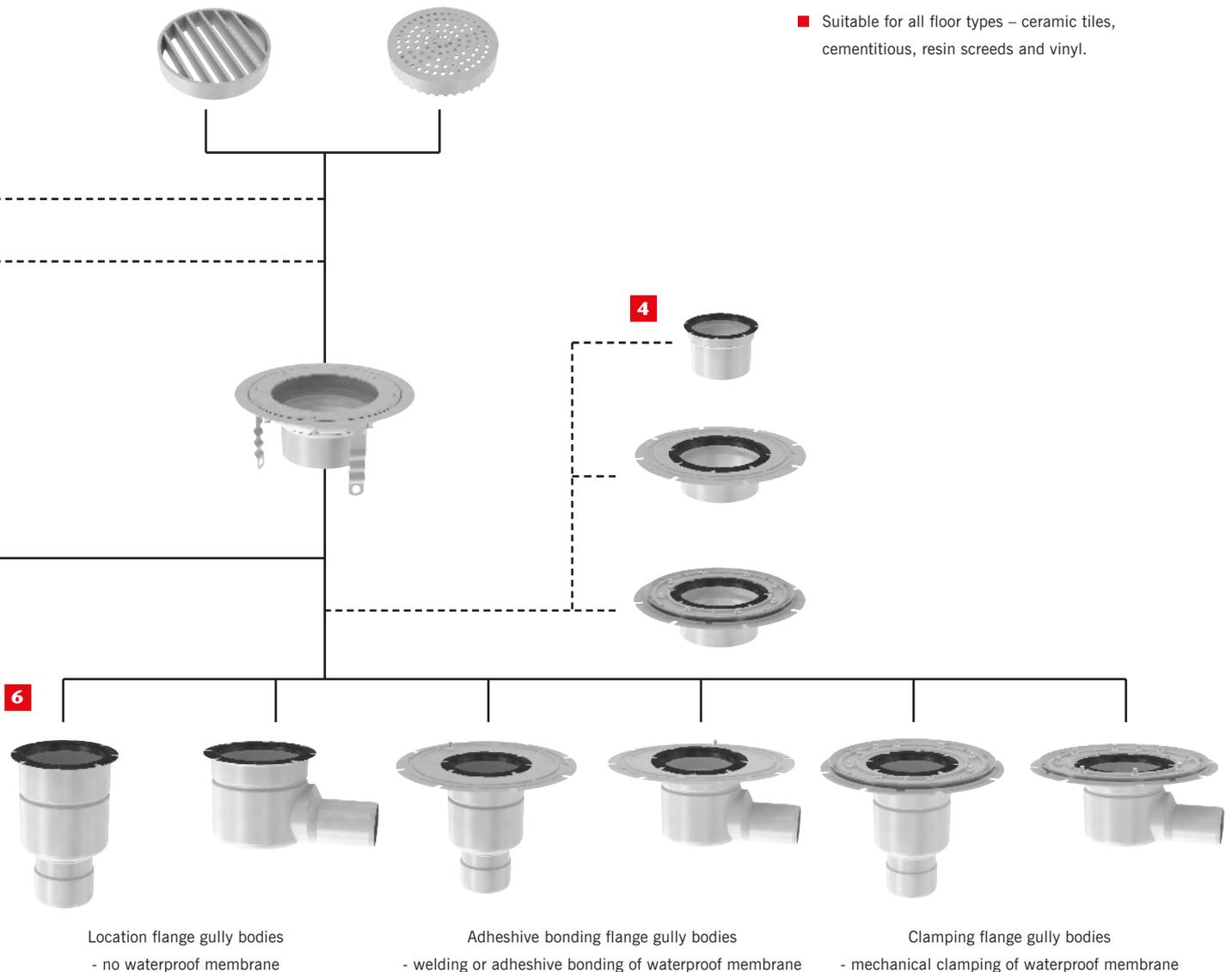
- Fully compliant to BS EN 1253.
- Hygienic design following BS EN 1672 and BS EN ISO 14159 requirements.
- Slip resistant gratings provide user safety.
- Easy and low cost cleaning.
- Stainless steel construction for durability and long life.
- Optional silt basket.
- Wide range of grating choice.
- Gully top edge infill supplied as standard for hygiene and durability.
- Positive membrane drainage.

Contractor benefits

- Low construction height.
- Friction lock telescopic adjustment reduces installation time.
- Gully levelling facilities.
- Quick and reliable flange connection for waterproofing membranes.
- Friction ring converts easily to membrane seepage drainage.
- Gully top edge infill for durability and eliminates time-consuming back filling.
- Easy installation for all floor types – ceramic tiles, cementitious, resin screeds and vinyl.

Specifier benefits

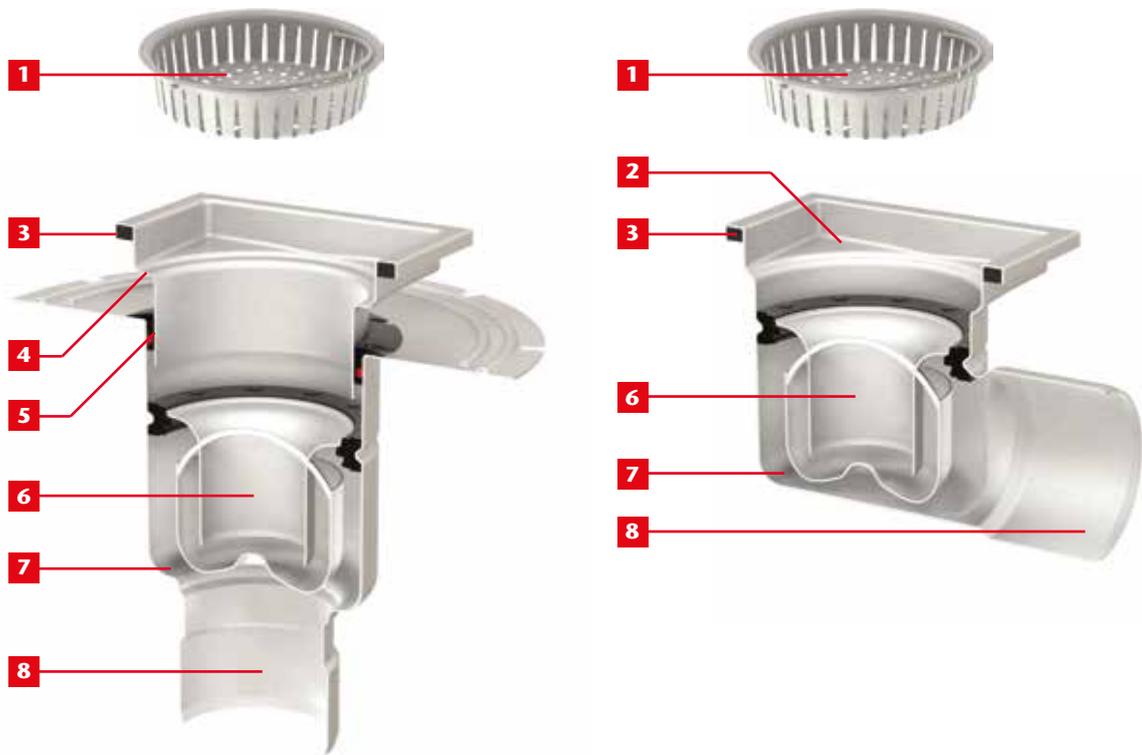
- Fully compliant to BS EN 1253.
- Hygienic design following BS EN 1672 and BS EN ISO 14159 requirements.
- Slip resistant gratings provide user safety.
- Stainless steel construction for durability and long life.
- Gully top edge infill supplied as standard for hygiene and durability.
- Wide range of gratings for all load class applications.
- Low construction height.
- Reliable waterproofing membrane connection options.
- Waterproofing membrane seepage drainage provision.
- Suitable for all floor types – ceramic tiles, cementitious, resin screeds and vinyl.



ACO Gully 157, 200 and 218

Features and benefits

- 1** Deep-drawn stainless steel silt basket eliminates crevices.
- 2** Deep-drawn body ensures smooth contours eliminating crevices.
- 3** Edge in-fill significantly improves hygiene and durability.
- 4** Large radii for easy cleaning.
- 5** Friction ring reduces installation time and is easily convertible for membrane drainage.
- 6** Fully removable foul air trap for easy cleaning. Design minimises evaporation rate and aerosol mobility.
- 7** Dry sump design, no water retention in sump.
- 8** Gully flow rate and self-cleansing exceeds requirements of BS EN 1253.



Grating Lockings and Security

For applications where locked gratings are required, ACO Gully 157 and 218 gullies can be supplied with factory fitted standard lockings (activated by a standard hexagon wrench) or security lockings (activated by a security hexagon wrench).

Notes:

- 1. Gully gratings will be modified at the factory for locking as part of gully locking kit.
- 2. Locking kits include gully modification, locking bar and fixing.
- 3. Appropriate standard or security locking wrench to be ordered separately.

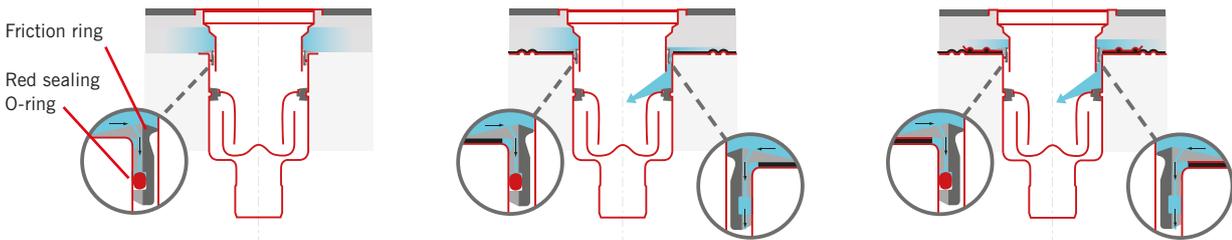
Part No	Description	Pricing unit
26350	Security Gully Locking Kit	Per gully top
26360	Standard Gully Locking Kit	Per gully top
46876	Standard Hexagon Locking Wrench 5mm	Each
46786	Security Hexagon Locking Wrench 5mm	Each

ACO Gully 157, 200, 218 and 357

Features and benefits

Telescopic Gullies

All ACO Gully 157 and 218 Telescopic gullies come complete with a nitrile friction ring and red sealing O-ring. Removal of the red sealing O-ring opens the water drainage ways to prevent build-up of water on the membrane layer.



With location flange

- Friction lock height adjustment
- 360° rotatable top
- No waterproof membrane connection
- No seepage drainage

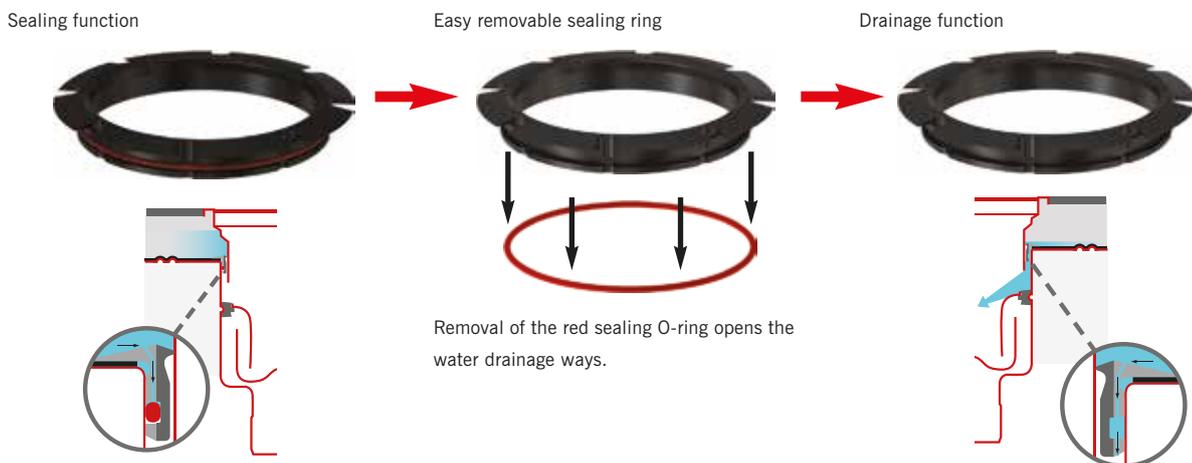
With adhesive bonding flange

- Friction lock height adjustment
- 360° rotatable top
- Adhesive bonding flange for waterproofing layer
- Seepage drainage or sealed solution easily configured on installation

With mechanical clamping flange

- Friction lock height adjustment
- 360° rotatable top
- Mechanical clamping flange for waterproofing layer
- Seepage drainage or sealed solution easily configured on installation

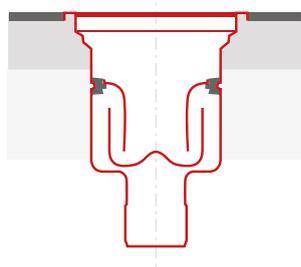
Friction ring* - red sealing O-ring removal



*Patent applied for

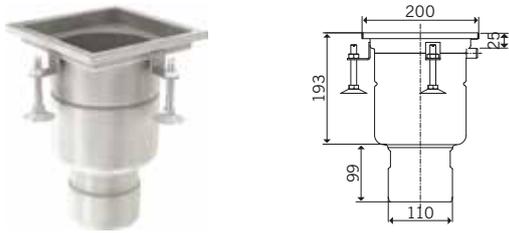
Fixed Height Gullies

All ACO Gully 157, 200 and 218 Fixed gullies have no seepage drainage facility.



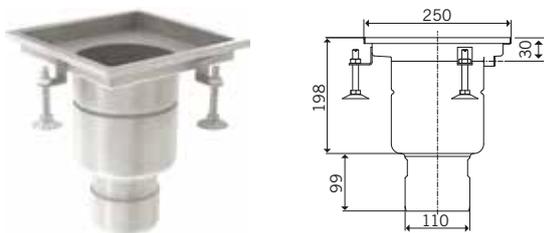
- Fixed gully height
- No waterproofing membrane connection
- No seepage drainage facility

ACO Gully 157 - Fixed Height



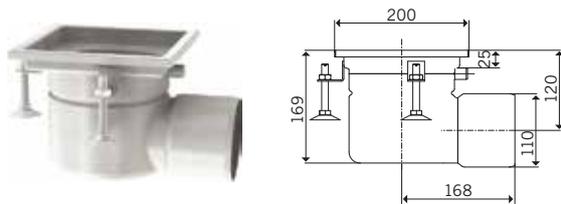
Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408003	Gully 157 FXD Vertical Outlet S/S 304	200 × 200	157	193 (+99)	110	3.5	3.0
408103	Gully 157 FXD Vertical Outlet S/S 316	200 × 200	157	193 (+99)	110	3.5	3.0

†Spigot depth in brackets.

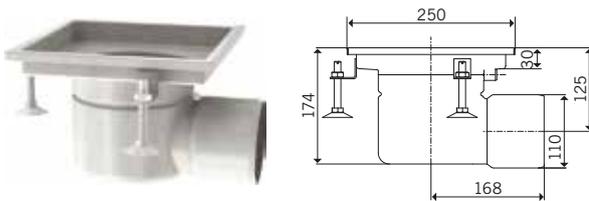


Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408019	Gully 157 FXD Vertical Outlet S/S 304	250 × 250	157	198 (+99)	110	3.5	3.5
408119	Gully 157 FXD Vertical Outlet S/S 316	250 × 250	157	198 (+99)	110	3.5	3.5

†Spigot depth in brackets.



Part No	Description	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408011	Gully 157 FXD Horizontal Outlet S/S 304	200 × 200	157	175	110	2.8	2.9
408111	Gully 157 FXD Horizontal Outlet S/S 316	200 × 200	157	175	110	2.8	2.9



Part No	Description	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408027	Gully 157 FXD Horizontal Outlet S/S 304	250 × 250	157	180	110	2.8	3.4
408127	Gully 157 FXD Horizontal Outlet S/S 316	250 × 250	157	180	110	2.8	3.4

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 157 - Fixed Height Accessories and Replacement Parts



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
416904	Vertical Outlet Gully Silt Basket 0.6 litre capacity S/S 304	-	Ø156	50	-	-	0.4
416905	Vertical Outlet Gully Silt Basket 0.6 litre capacity S/S 316	-	Ø156	50	-	-	0.4



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
416906	Horizontal Outlet Gully Silt Basket 0.3 litre capacity S/S 304	-	Ø156	26	-	-	0.34
416907	Horizontal Outlet Gully Silt Basket 0.3 litre capacity S/S 316	-	Ø156	26	-	-	0.34



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
408200	Foul Air Trap S/S 304	-	Ø127	105	-	-	0.8
408210	Foul Air Trap S/S 316	-	Ø127	105	-	-	0.8



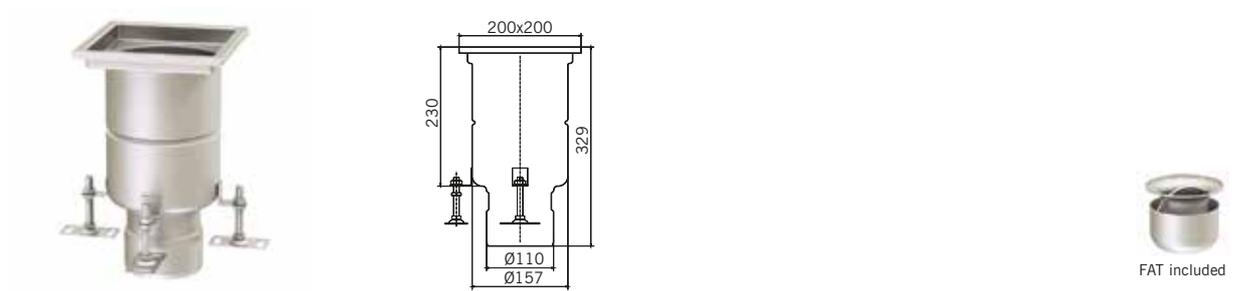
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
408201	Foul Air Trap Support Ring Nitrile	-	Ø156	21	-	-	0.1

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 157 - Fixed Height Free-Standing for Increased Silt Basket Volume Applications

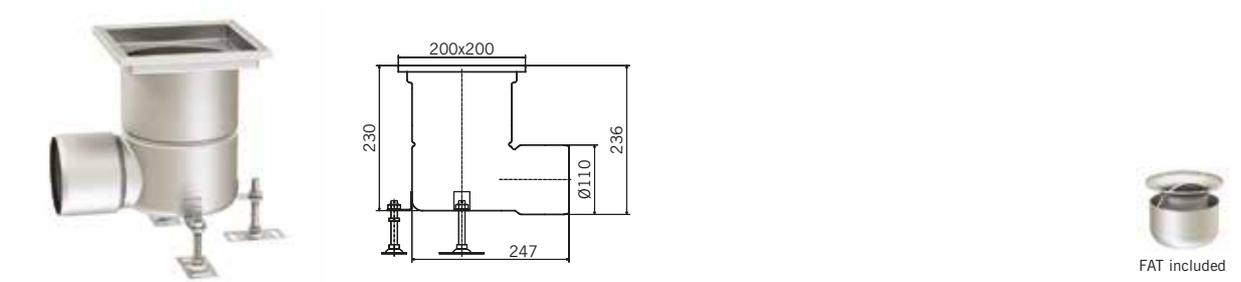
NEW!

- Hygienic design including large radii formed contours, deep drawn components to minimise crevices and bacteria traps according to BS EN 1672 and BS EN ISO 14159.
- Fully compliant to BS EN 1253.
- Optional high capacity silt basket (0.9 litres).
- Dry sump design ensures no standing waste water in gully base.
- Fully removable and easily cleaned foul air trap (FAT).
- Removable hygienic and corrosion resistant Nitrile FAT support.
- High flow rate.
- Outlet spigot Ø110mm for both horizontal and vertical outlet configurations.
- Accepts all ACO Gully 157 200x200 x25mm gratings as shown on Page 35.
- Available in 316 stainless steel to special order.



Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
416529	Gully 157 FXD Vertical Outlet S/S 304 for increased silt basket volume applications	200 × 200	157	230 (+99)	110	3.7	2.80

†Spigot depth in brackets.



Part No	Description	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
416061	Gully 157 FXD Horizontal Outlet S/S 304 for increased silt basket volume applications	200 × 200	157	236	110	3.0	3.10

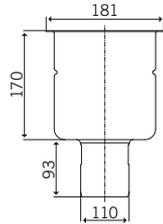


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416416	Optional Silt Basket 0.9 litre capacity S/S 304	-	Ø154	80	-	0.65

Note: For replacement support ring and foul air trap please refer to page 27.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

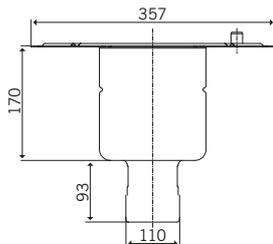
ACO Gully 157 – Telescopic – Vertical and Horizontal Outlet



Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408055	Gully 157 TELE Vertical Outlet S/S 304	181	157	170 (+93)	110	3.9 - 4.2	2.3
408155	Gully 157 TELE Vertical Outlet S/S 316	181	157	170 (+93)	110	3.9 - 4.2	2.3

*Flow rate will depend on telescopic height configuration when installed.

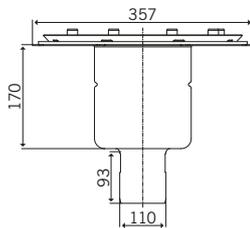
†Spigot depth in brackets.



Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408057	Gully 157 TELE Vertical Outlet with Adhesive Bonding Flange S/S 304	357	157	170 (+93)	110	3.9 - 4.2	3.3
408157	Gully 157 TELE Vertical Outlet with Adhesive Bonding Flange S/S 316	357	157	170 (+93)	110	3.9 - 4.2	3.3

*Flow rate will depend on telescopic height configuration when installed.

†Spigot depth in brackets.



Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408059	Gully 157 TELE Vertical Outlet with Mechanical Clamping Flange S/S 304	357	157	170 (+93)	110	3.9 - 4.2	4.3
408159	Gully 157 TELE Vertical Outlet with Mechanical Clamping Flange S/S 316	357	157	170 (+93)	110	3.9 - 4.2	4.3

*Flow rate will depend on telescopic height configuration when installed.

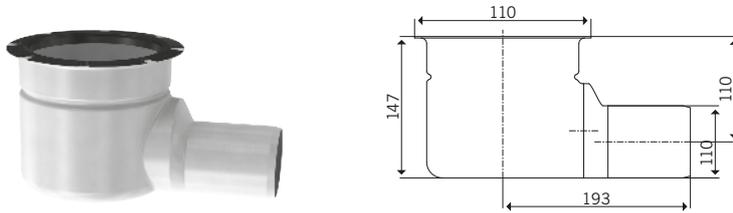
†Spigot depth in brackets.

Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

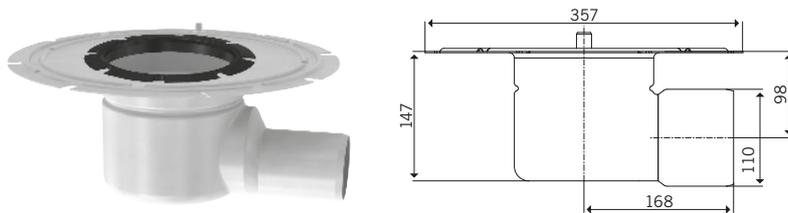


ACO Gully 157 – Telescopic – Horizontal Outlet



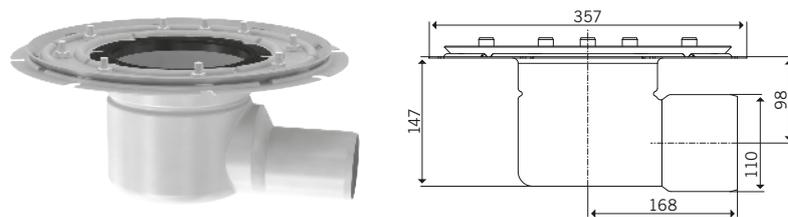
Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408079	Gully 157 TELE Horizontal Outlet S/S 304	181	157	147	110	2.8	2.2
408179	Gully 157 TELE Horizontal Outlet S/S 316	181	157	147	110	2.8	2.2

*Flow rate will depend on telescopic height configuration when installed.



Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408081	Gully 157 TELE Horizontal Outlet with Adhesive Bonding Flange S/S 304	357	157	153	110	2.8	3.2
408181	Gully 157 TELE Horizontal Outlet with Adhesive Bonding Flange S/S 304	357	157	153	110	2.8	3.2

*Flow rate will depend on telescopic height configuration when installed.



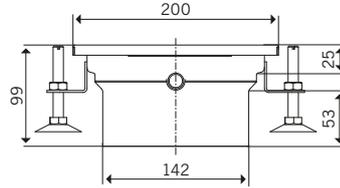
Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408083	Gully 157 TELE Horizontal Outlet with Mechanical Clamping Flange S/S 304	357	157	153	110	2.8	4.1
408183	Gully 157 TELE Horizontal Outlet with Mechanical Clamping Flange S/S 316	357	157	153	110	2.8	4.1

*Flow rate will depend on telescopic height configuration when installed.

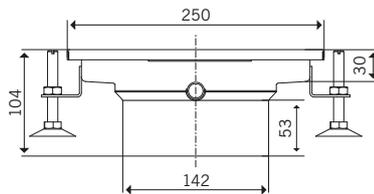
Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

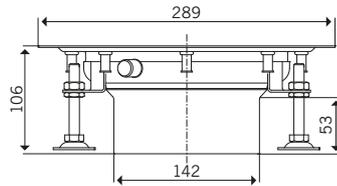
ACO Gully 157 – Telescopic – Gully Tops



Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408208	Gully 157 TELE Square Top S/S 304 (concrete, tiled and resin screed floors)	200 x 200	99	25	1.2
408218	Gully 157 TELE Square Top S/S 316 (concrete, tiled and resin screed floors)	200 x 200	99	25	1.2



Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408248	Gully 157 TELE Square Top S/S 304 (concrete, tiled and resin screed floors)	250 x 250	104	30	1.6
408258	Gully 157 TELE Square Top S/S 316 (concrete, tiled and resin screed floors)	250 x 250	104	30	1.6



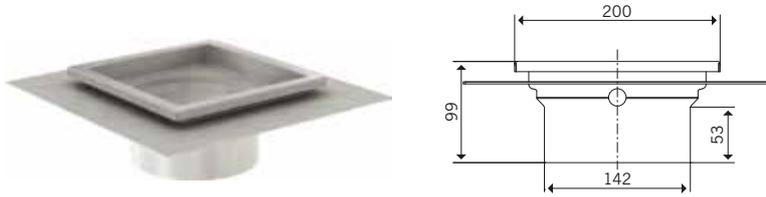
Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408240	Gully 157 TELE Circular Top S/S 304 (vinyl floor top)	Ø289	106	30	1.8
408250	Gully 157 TELE Circular Top S/S 316 (vinyl floor top)	Ø289	106	30	1.8



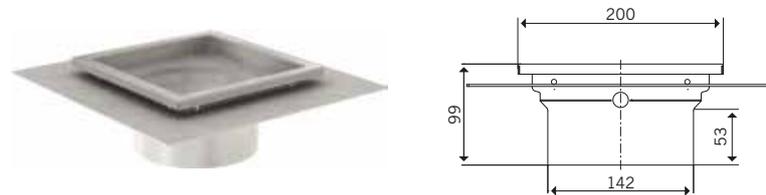
Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

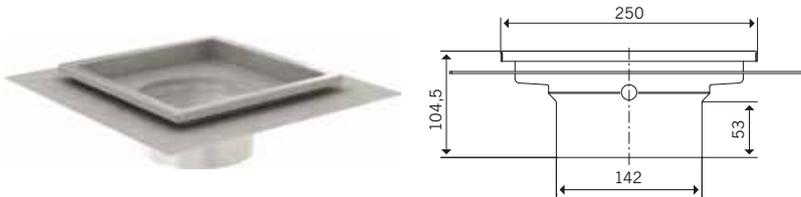
ACO Gully 157 – Telescopic – Gully Tops



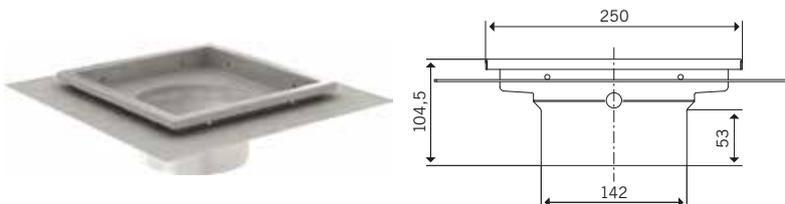
Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408241	Gully 157 TELE Square Top S/S 304 (Thin-bed top or tanked flooring)	200 x 200	99	25	1.9
408251	Gully 157 TELE Square Top S/S 316 (Thin-bed top or tanked flooring)	200 x 200	99	25	1.9



Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408244	Gully 157 TELE Square Top with Drainage Holes S/S 304 (Thin-bed top or tanked flooring)	200 x 200	99	25	1.9
408254	Gully 157 TELE Square Top with Drainage Holes S/S 316 (Thin-bed top or tanked flooring)	200 x 200	99	25	1.9



Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408245	Gully 157 TELE Square Top S/S 304 (Thin-bed top or tanked flooring)	250 x 250	104.5	30	2.4
408255	Gully 157 TELE Square Top S/S 316 (Thin-bed top or tanked flooring)	250 x 250	104.5	30	2.4

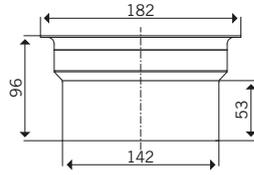


Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408246	Gully 157 TELE Square Top with Drainage Holes S/S 304 (Thin-bed top or tanked flooring)	250 x 250	104.5	30	2.4
408256	Gully 157 TELE Square Top with Drainage Holes S/S 316 (Thin-bed top or tanked flooring)	250 x 250	104.5	30	2.4

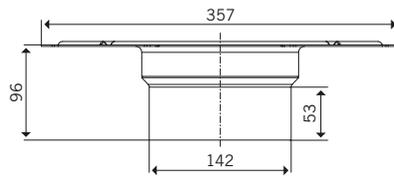
Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

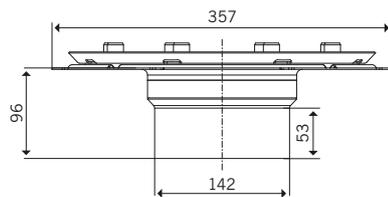
ACO Gully 157 – Telescopic – Raising Pieces



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
408249	Gully 157 TELE Raising Piece with Location Flange S/S 304	-	Ø182	96	-	-	0.6
408259	Gully 157 TELE Raising Piece with Location Flange S/S 316	-	Ø182	96	-	-	0.6



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
408206	Gully 157 TELE Raising Piece with Adhesive Bonding Flange S/S 304	-	Ø357	96	-	-	1.9
408216	Gully 157 TELE Raising Piece with Adhesive Bonding Flange S/S 316	-	Ø357	96	-	-	1.9



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Invert (mm)	Flow rate (l/s)	Weight (kg)
408207	Gully 157 TELE Raising Piece with Mechanical Clamping Flange S/S 304	-	Ø357	96	-	-	1.9
408217	Gully 157 TELE Raising Piece with Mechanical Clamping Flange S/S 316	-	Ø357	96	-	-	1.9



Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 157 – Telescopic – Accessories and Replacement Parts



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416904	Vertical Outlet Gully Silt Basket 0.6 litre capacity S/S 304	-	Ø156	50	-	0.40
416905	Vertical Outlet Gully Silt Basket 0.6 litre capacity S/S 316	-	Ø156	50	-	0.40



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416906	Horizontal Outlet Gully Silt Basket 0.3 litre capacity S/S 304	-	Ø156	26	-	0.34
416907	Horizontal Outlet Gully Silt Basket 0.3 litre capacity S/S 316	-	Ø156	26	-	0.34



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408200	Foul Air Trap S/S 304	-	Ø127	105	-	0.80
408210	Foul Air Trap S/S 316	-	Ø127	105	-	0.80

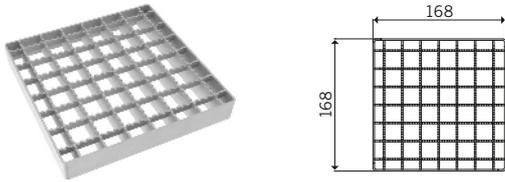


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408201	Foul Air Trap Support Ring Nitrile	-	Ø156	21	-	0.10

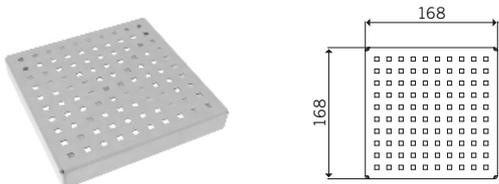


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408205	Friction Ring Installation Set Nitrile	-	Ø184	24	-	0.07

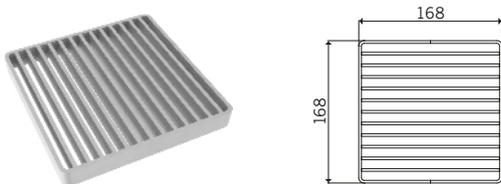
ACO Gully 157 – Gratings for Top Size 200×200mm (25mm Deep)



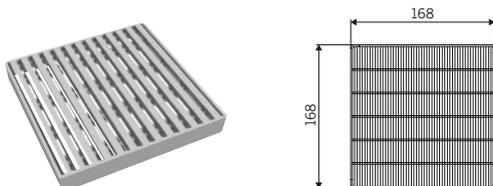
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408091	Plain Mesh S/S 304	Electropolished	L15	168	168	25	0.80
408191	Plain Mesh S/S 316	Electropolished	L15	168	168	25	0.80
408090	Slip Resistant Mesh S/S 304	Electropolished	L15	168	168	25	0.80
408190	Slip Resistant Mesh S/S 316	Electropolished	L15	168	168	25	0.80



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408092	Quadrato S/S 304	Linished	L15	168	168	25	0.78
408192	Quadrato S/S 316	Linished	L15	168	168	25	0.78



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408043	Plain Ladder S/S 304	Pickled	C250	168	168	25	2.20
408143	Plain Ladder S/S 316	Pickled	C250	168	168	25	2.20
416912	Ladder S/S 304 (Reversible Plain or Slip Resistant)	Pickled	M125	168	168	25	1.60
416913	Ladder S/S 316 (Reversible Plain or Slip Resistant)	Pickled	M125	168	168	25	1.60



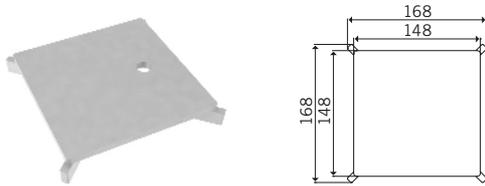
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408022	Heelsafe S/S 304	Linished	L15	168	168	25	0.95
408122	Heelsafe S/S 316	Linished	L15	168	168	25	0.95

Please refer to page 24 for gully locking kits and appropriate wrench to complete locked grating system.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.



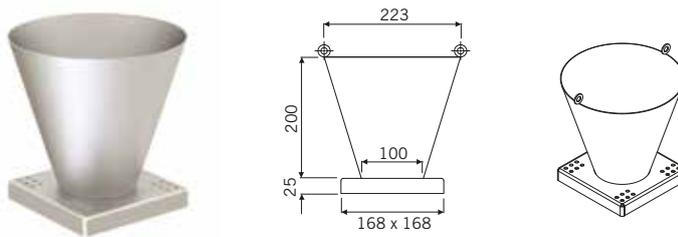
ACO Gully 157 – Gratings for Top Size 200x200mm (25mm Deep)



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408021	Slot Cover S/S 304	Pickled	M125	168	168	25	2.30
408121	Slot Cover S/S 304	Pickled	M125	168	168	25	2.30

Please refer to page 22 for gully locking kits and appropriate wrench to complete locked grating system.

ACO Gully 157 – Gratings for Top Size 200x200mm and Mounted Tundish (25mm Deep)



Part No	Description	Finish	Top Size (mm)	Entry Dia (mm)	Tundish Height (mm)	Weight (kg)
415918	Grating and Mounted Tundish S/S 304	Pickled	168 x 168	223	200	1.59



ACO Gully 157 – Gratings for Vinyl Top (30mm Deep)

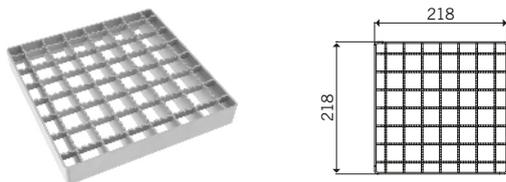


Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
97146	Ladder S/S 304 (Reversible, Plain or Slip Resistant)	Electropolished	M125	-	Ø170	30	1.60
97367	Ladder S/S 316 (Reversible, Plain or Slip Resistant)	Electropolished	M125	-	Ø170	30	1.60

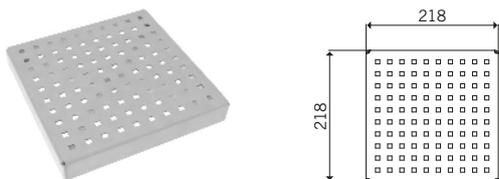


Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
97152	Perforated Grating S/S 304	Pickled	L15	-	Ø170	30	0.70
97369	Perforated Grating S/S 316	Pickled	L15	-	Ø170	30	0.70

ACO Gully 157 – Gratings for Top Size 250×250mm (30mm Deep)



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408096	Plain Mesh S/S 304	Electropolished	L15	218	218	30	1.50
408196	Plain Mesh S/S 316	Electropolished	L15	218	218	30	1.50
408095	Slip Resistant Mesh S/S 304	Electropolished	L15	218	218	30	1.50
408195	Slip Resistant Mesh S/S 316	Electropolished	L15	218	218	30	1.50



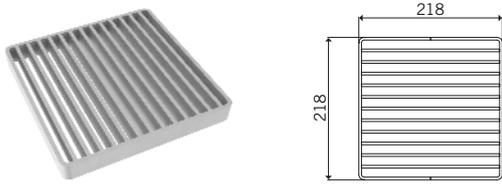
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408097	Quadrato S/S 304	Linished	L15	218	218	30	1.29
408197	Quadrato S/S 316	Linished	L15	218	218	30	1.29

Please refer to page 24 for gully locking kits and appropriate wrench to complete locked grating system.

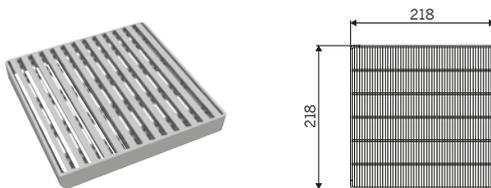
Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.



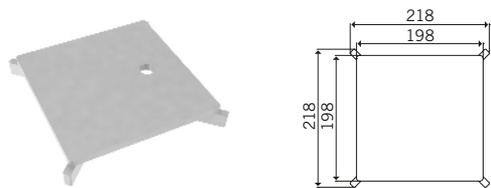
ACO Gully 157 – Gratings for Top Size 250×250mm (30mm Deep)



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408044	Plain Ladder S/S 304	Pickled	C250	218	218	30	4.50
408144	Plain Ladder S/S 316	Pickled	C250	218	218	30	4.50
416914	Ladder S/S 304 (Reversible Plain or Slip Resistant)	Pickled	M125	218	218	30	3.00
416915	Ladder S/S 316 (Reversible Plain or Slip Resistant)	Pickled	M125	218	218	30	3.00



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408031	Heelsafe S/S 304	Linished	L15	218	218	30	1.70
408131	Heelsafe S/S 316	Linished	L15	218	218	30	1.70



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408030	Slot Cover S/S 304	Pickled	M125	218	218	30	4.00
408130	Slot Cover S/S 316	Pickled	M125	218	218	30	4.00

Please refer to page 24 for gully locking kits and appropriate wrench to complete locked grating system.

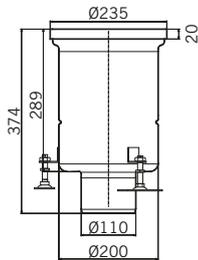
Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.



ACO Gully 200 - Fixed Height Free Standing for Increased Silt Basket Volume Applications

NEW!

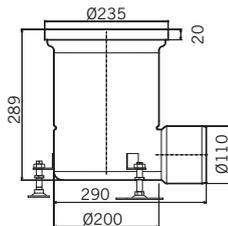
- Hygienic design including large radii formed contours, deep drawn components to minimise crevices and bacteria traps according to BS EN 1672 and BS EN ISO 14159.
- Fully compliant to BS EN 1253.
- Supplied complete with high capacity silt basket (2.7 litres).
- Round top alleviates wall / equipment alignment issues.
- Dry sump design ensures no standing waste water in gully base.
- Fully removable and easily cleaned foul air trap (FAT).
- Removable hygienic and corrosion resistant Nitrile FAT support.
- High flow rate gully 4 l/s.
- Robust 6.5mm thick gully top rim.
- Outlet spigot Ø110mm for both horizontal and vertical outlet configurations.
- Supplied complete with fully welded plain Ladder Grating to load class L15.
- Available in 316 stainless steel to special order.



FAT included

Part No	Description	Top Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot Dia (mm)	Flow rate (l/s)	Weight (kg)
416110	Gully 200 FXD Vertical Outlet S/S 304 for increased silt basket volume applications	235	200	289 (+85)	110	4.0	7.25

†Spigot depth in brackets.

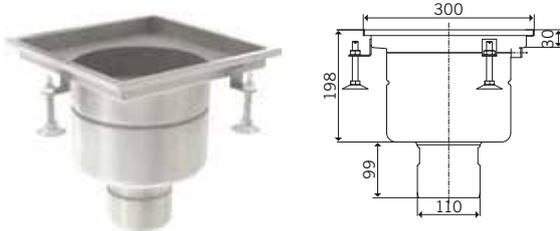


FAT included

Part No	Description	Top Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot Dia (mm)	Flow rate (l/s)	Weight (kg)
416111	Gully 200 FXD Horizontal Outlet S/S 304 for increased silt basket volume applications	235	200	295	110	4.0	6.30



ACO Gully 218 – Fixed Height



FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408005	Gully 218 FXD Vertical Outlet S/S 304	300×300	218	198 (+99)	110	5.0	4.50
408105	Gully 218 FXD Vertical Outlet S/S 316	300×300	218	198 (+99)	110	5.0	4.50

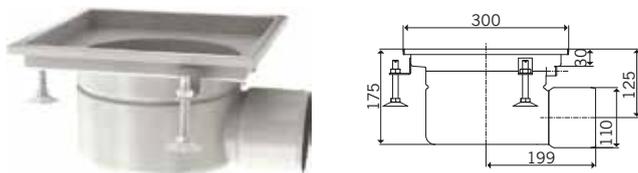
†Spigot depth in brackets.



FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408007	Gully 218 FXD Vertical Outlet S/S 304	300×300	218	198 (+77)	160	5.0	4.40
408107	Gully 218 FXD Vertical Outlet S/S 316	300×300	218	198 (+77)	160	5.0	4.40

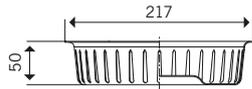
†Spigot depth in brackets.



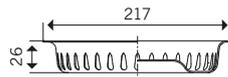
FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
408013	Gully 218 FXD Horizontal Outlet S/S 304	300×300	218	180	110	4.4	4.20
408113	Gully 218 FXD Horizontal Outlet S/S 316	300×300	218	180	110	4.4	4.20

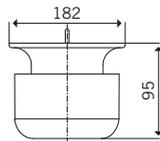
ACO Gully 218 – Fixed Height – Accessories and Replacement Parts



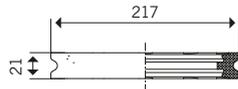
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416908	Vertical Outlet Gully Silt Basket 1.4 litre capacity S/S 304	-	Ø217	50	-	0.70
416909	Vertical Outlet Gully Silt Basket 1.4 litre capacity S/S 316	-	Ø217	50	-	0.70



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416910	Horizontal Outlet Gully Silt Basket 0.7 litre capacity S/S 304	-	Ø217	26	-	0.60
416911	Horizontal Outlet Gully Silt Basket 0.7 litre capacity S/S 316	-	Ø217	26	-	0.60

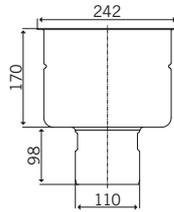


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408220	Foul Air Trap S/S 304	-	Ø182	96	-	1.20
408230	Foul Air Trap S/S 316	-	Ø182	96	-	1.20



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408221	Foul Air Trap Support Ring Nitrile	-	Ø217	21	-	0.10

ACO Gully 218 – Telescopic

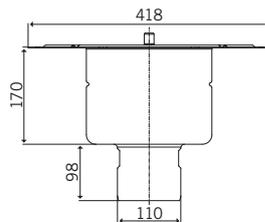


FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408061	Gully 218 TELE Vertical Outlet with Location Flange S/S 304	242	218	170 (+98)	110	5.0 - 6.3	3.30
408161	Gully 218 TELE Vertical Outlet with Location Flange S/S 316	242	218	170 (+98)	110	5.0 - 6.3	3.30

†Spigot depth in brackets.

*Flow rate will depend on telescopic height configuration when installed.

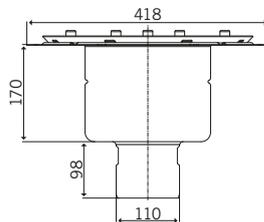


FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408063	Gully 218 TELE Vertical Outlet with Adhesive Bonding Flange S/S 304	418	218	170 (+98)	110	5.0 - 6.3	4.50
408163	Gully 218 TELE Vertical Outlet with Adhesive Bonding Flange S/S 316	418	218	170 (+98)	110	5.0 - 6.3	4.50

†Spigot depth in brackets.

*Flow rate will depend on telescopic height configuration when installed.



FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408065	Gully 218 TELE Vertical Outlet with Mechanical Clamping Flange S/S 304	418	218	170 (+98)	110	5.0 - 6.3	5.60
408165	Gully 218 TELE Vertical Outlet with Mechanical Clamping Flange S/S 316	418	218	170 (+98)	110	5.0 - 6.3	5.60

†Spigot depth in brackets.

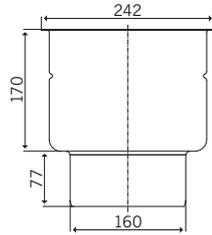
*Flow rate will depend on telescopic height configuration when installed.

Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.



ACO Gully 218 – Telescopic

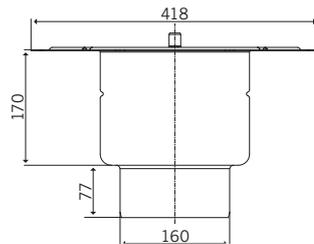


FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408067	Gully 218 TELE Vertical Outlet with Location Flange S/S 304	242	218	170 (+77)	160	5.0 - 6.3	3.20
408167	Gully 218 TELE Vertical Outlet with Location Flange S/S 316	242	218	170 (+77)	160	5.0 - 6.3	3.20

†Spigot depth in brackets.

*Flow rate will depend on telescopic height configuration when installed.

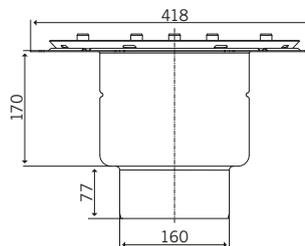


FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408069	Gully 218 TELE Vertical Outlet with Adhesive Bonding Flange S/S 304	418	218	170 (+77)	160	5.0 - 6.3	4.40
408169	Gully 218 TELE Vertical Outlet with Adhesive Bonding Flange S/S 316	418	218	170 (+77)	160	5.0 - 6.3	4.40

†Spigot depth in brackets.

*Flow rate will depend on telescopic height configuration when installed.



FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408071	Gully 218 TELE Vertical Outlet with Mechanical Clamping Flange S/S 304	418	218	170 (+77)	160	5.0 - 6.3	5.50
408171	Gully 218 TELE Vertical Outlet with Mechanical Clamping Flange S/S 316	418	218	170 (+77)	160	5.0 - 6.3	5.50

†Spigot depth in brackets.

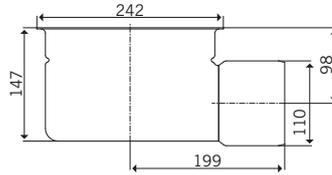
*Flow rate will depend on telescopic height configuration when installed.

Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.



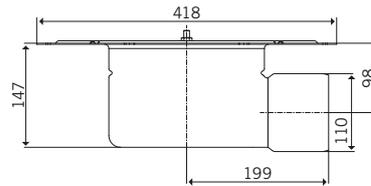
ACO Gully 218 – Telescopic



FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408085	Gully 218 TELE Horizontal Outlet with Location Flange S/S 304	242	218	153	110	4.4 - 5.5	2.20
408185	Gully 218 TELE Horizontal Outlet with Location Flange S/S 316	242	218	153	110	4.4 - 5.5	2.20

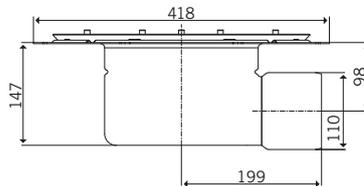
*Flow rate will depend on telescopic height configuration when installed.



FAT included

Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408087	Gully 218 TELE Horizontal Outlet with Adhesive Bonding Flange S/S 304	418	218	153	110	4.4 - 5.5	4.20
408187	Gully 218 TELE Horizontal Outlet with Adhesive Bonding Flange S/S 316	418	218	153	110	4.4 - 5.5	4.20

*Flow rate will depend on telescopic height configuration when installed.



FAT included

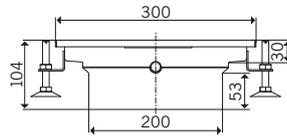
Part No	Description	Flange Dia (mm)	Body Dia (mm)	Depth overall (mm)	Spigot dia (mm)	Flow rate* (l/s)	Weight (kg)
408089	Gully 218 TELE Horizontal Outlet with Mechanical Clamping Flange S/S 304	418	218	153	110	4.4 - 5.5	4.40
408189	Gully 218 TELE Horizontal Outlet with Mechanical Clamping Flange S/S 316	418	218	153	110	4.4 - 5.5	4.40

*Flow rate will depend on telescopic height configuration when installed.

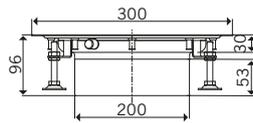
Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 218 – Telescopic – Gully Tops



Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408228	Gully 218 TELE Square Top S/S 304 (Concrete, tiled and resin screed floors)	300 x 300	104	30	1.86
408238	Gully 218 TELE Square Top S/S 316 (Concrete, tiled and resin screed floors)	300 x 300	104	30	1.86



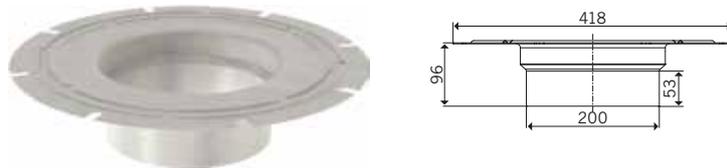
Part No	Description	Top Size (mm)	Depth overall (mm)	Grating Depth Required (mm)	Weight (kg)
408242	Gully 218 TELE Circular Top S/S 304 (Vinyl floor top)	Ø300	96	30	1.80
408252	Gully 218 TELE Circular Top S/S 316 (Vinyl floor top)	Ø300	96	30	1.80

Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.
 Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

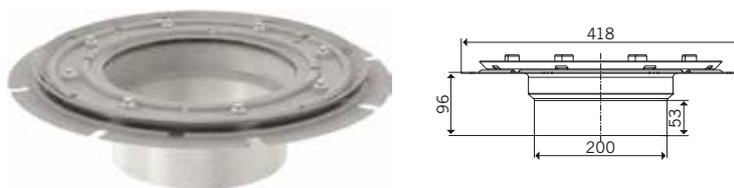
ACO Gully 218 – Telescopic – Raising Pieces



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408209	Gully 218 TELE Raising Piece with Location Flange S/S 304	-	Ø242	96	-	1.50
408219	Gully 218 TELE Raising Piece with Location Flange S/S 316	-	Ø242	96	-	1.50



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408226	Gully 218 TELE Raising Piece with Adhesive Bonding Flange S/S 304	-	Ø418	96	-	2.45
408236	Gully 218 TELE Raising Piece with Adhesive Bonding Flange S/S 316	-	Ø418	96	-	2.45

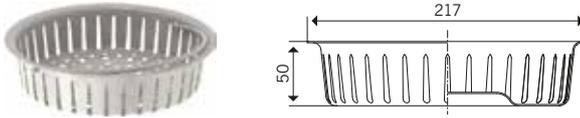


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408227	Gully 218 TELE Raising Piece with Mechanical Clamping Flange S/S 304	-	Ø418	96	-	2.50
408237	Gully 218 TELE Raising Piece with Mechanical Clamping Flange S/S 316	-	Ø418	96	-	2.50

Note: For invert height and adjustment depths of telescopic gullies please refer to page 57.

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

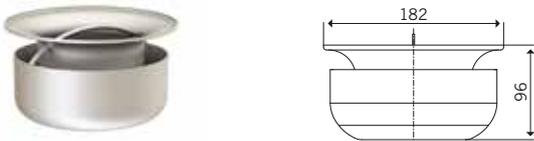
ACO Gully 218 – Telescopic – Accessories and Replacement Parts



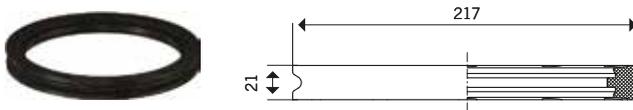
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416908	Vertical Outlet Gully Silt Basket 1.4 litre capacity S/S 304	-	Ø217	50	-	0.70
416909	Vertical Outlet Gully Silt Basket 1.4 litre capacity S/S 316	-	Ø217	50	-	0.70



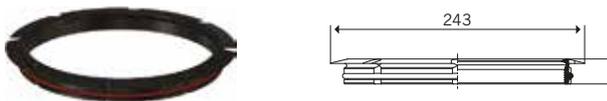
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
416910	Horizontal Outlet Gully Silt Basket 0.7 litre capacity S/S 304	-	Ø217	26	-	0.60
416911	Horizontal Outlet Gully Silt Basket 0.7 litre capacity S/S 316	-	Ø217	26	-	0.60



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408220	Foul Air Trap S/S 304	-	Ø182	96	-	1.20
408230	Foul Air Trap S/S 316	-	Ø182	96	-	1.20

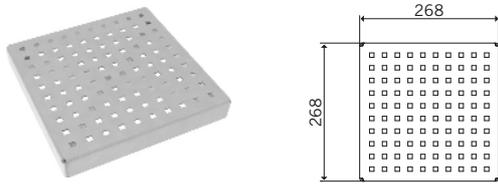


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408221	Foul Air Trap Support Ring Nitrile	-	Ø217	21	-	1.20

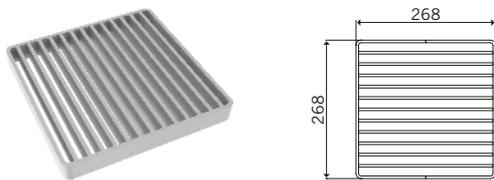


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
408225	Friction Ring Installation Set Nitrile	-	Ø243	24	-	0.09

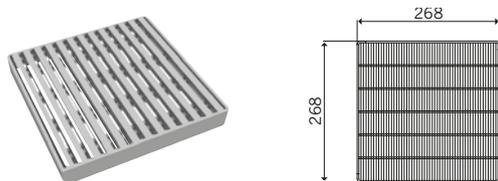
ACO Gully 218 – Gratings for Top Size 300×300mm (30mm Deep)



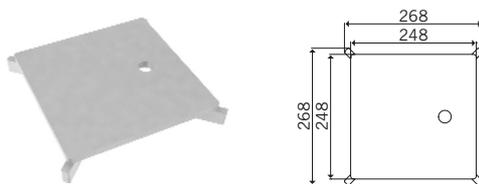
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408036	Quadrato S/S 304	Linished	L15	268	268	30	1.76
408136	Quadrato S/S 316	Linished	L15	268	268	30	1.76



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408045	Plain Ladder S/S 304	Pickled	C250	268	268	30	6.20
408145	Plain Ladder S/S 316	Pickled	C250	268	268	30	6.20
408037	Ladder S/S 304 (Reversible Plain or Slip Resistant)	Pickled	M125	268	268	30	4.30
408137	Ladder S/S 314 (Reversible Plain or Slip Resistant)	Pickled	M125	268	268	30	4.30



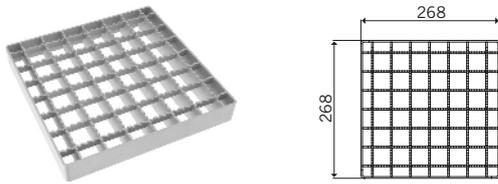
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408040	Heelsafe S/S 304	Linished	L15	268	268	30	2.40
408140	Heelsafe S/S 316	Linished	L15	268	268	30	2.40



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408039	Slot Cover S/S 304	Pickled	M125	268	268	30	6.00
408139	Slot Cover S/S 316	Pickled	M125	268	268	30	6.00

Please refer to page 24 for gully locking kits and appropriate wrench to complete locked grating system.
 Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Gully 218 – Gratings for Top Size 300×300mm (30mm Deep)



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
408035	Plain Mesh S/S 304	Electropolished	L15	268	268	30	2.10
408135	Plain Mesh S/S 316	Electropolished	L15	268	268	30	2.10
408034	Slip Resistant Mesh S/S 304	Electropolished	L15	268	268	30	2.10
408134	Slip Resistant Mesh S/S 316	Electropolished	L15	268	268	30	2.10

ACO Gully 218 – Gratings for Vinyl Top (30mm Deep)



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
97148	Ladder S/S 304 (Reversible, Plain or Slip Resistant)	Electropolished	M125	-	Ø222	30	2.40
97388	Ladder S/S 316 (Reversible, Plain or Slip Resistant)	Electropolished	M125	-	Ø222	30	2.40



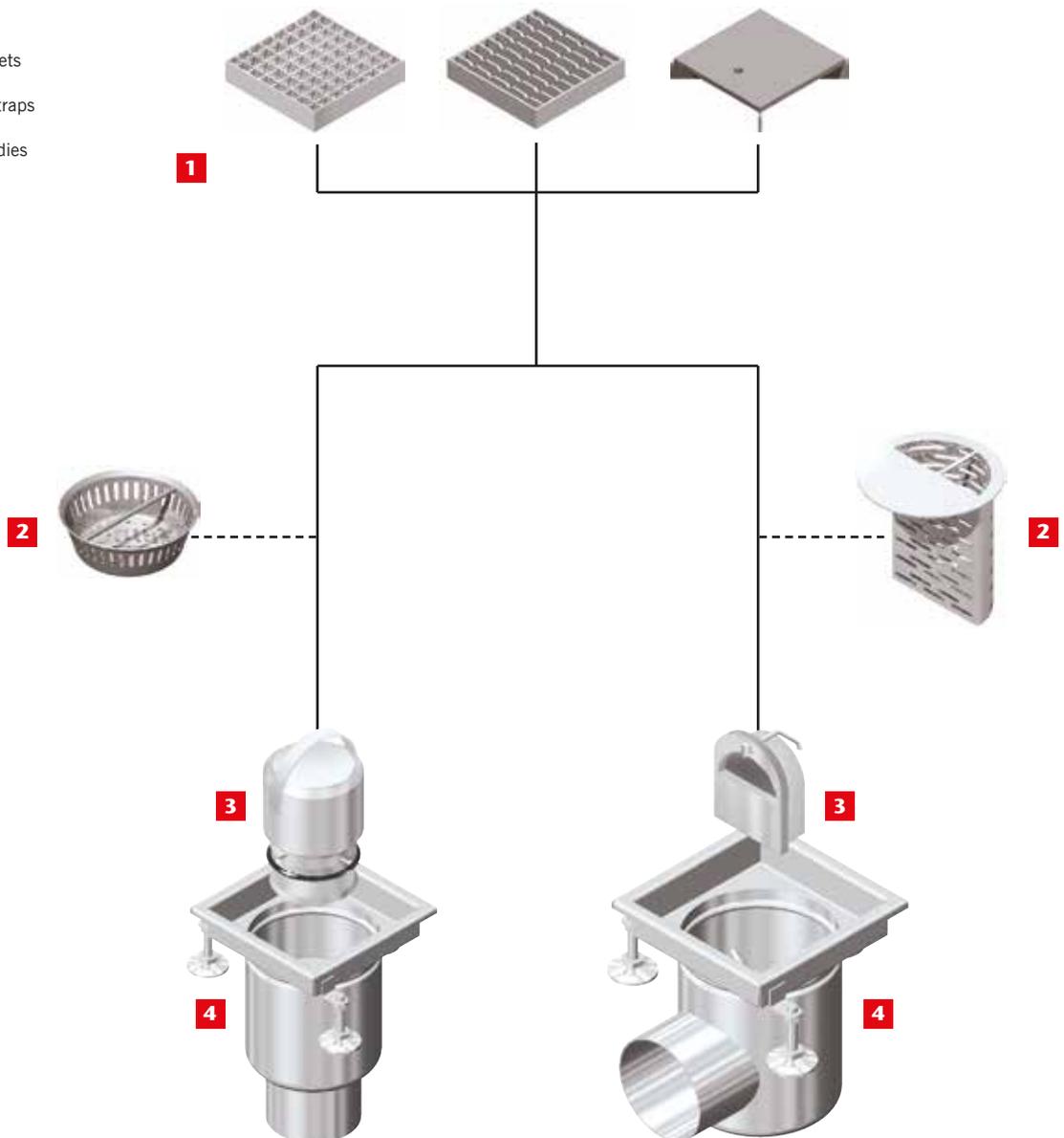
Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
97153	Perforated S/S 304	Pickled	L15	-	Ø222	30	1.20
97390	Perforated S/S 316	Pickled	L15	-	Ø222	30	1.20

ACO Gully 357

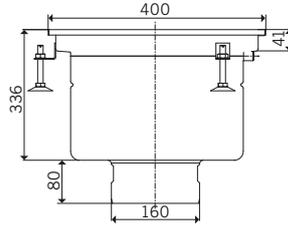
Features and benefits

- One-piece gullies, designed to be used in commercial applications suitable for concrete, resin or tiled floors.
- Manufactured from 2mm and 3mm thick austenitic stainless steel grade 304 or 316 to BS EN 10088.
- Pickle passivated to ensure corrosion free joints.
- Optional silt basket collects debris.
- Supplied complete with removable foul air trap to allow rodding access to connecting pipework for easy cleaning and maintenance.
- Height adjustable levelling feet allow for quick and easy installation.
- Bowl shaped gully bodies deter silt and debris collecting in corners making cleaning easy.
- Available with either Ø160mm and Ø200mm spigot outlets.
- Electrical earthing point provided as standard.
- Chamfered spigot outlets allow easy push fit connection onto existing drainage pipes.

- 1** Gratings
- 2** Silt baskets
- 3** Foul air traps
- 4** Gully bodies



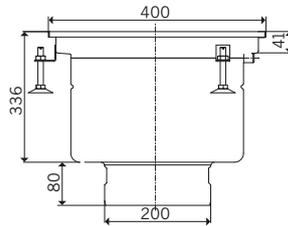
ACO Gully 357 – Fixed Height



FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
05766	Gully 357 FXD Vertical Outlet S/S 304	400×400	357	336 (+80)	Ø160	10.0	12.00
15766	Gully 357 FXD Vertical Outlet S/S 316	400×400	357	336 (+80)	Ø160	10.0	12.00

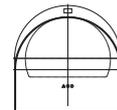
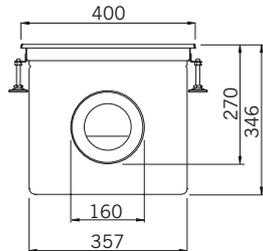
†Spigot depth in brackets.



FAT included

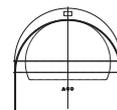
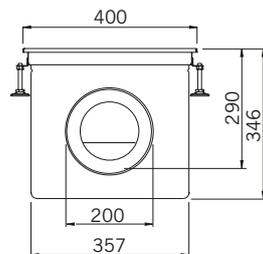
Part No	Description	Top size (mm)	Body dia (mm)	Depth † overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
05768	Gully 357 FXD Vertical Outlet S/S 304	400×400	357	336 (+80)	Ø200	11.0	12.30
15768	Gully 357 FXD Vertical Outlet S/S 316	400×400	357	336 (+80)	Ø200	11.0	12.30

†Spigot depth in brackets.



Horizontal FAT included

Part No	Description	Top size (mm)	Body dia (mm)	Depth* overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
05767	Gully 357 FXD Horizontal Outlet S/S 304	400×400	357	346	Ø160	8.5	12.10
15767	Gully 357 FXD Horizontal Outlet S/S 316	400×400	357	346	Ø160	8.5	12.10

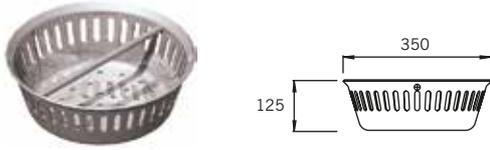


Horizontal FAT included

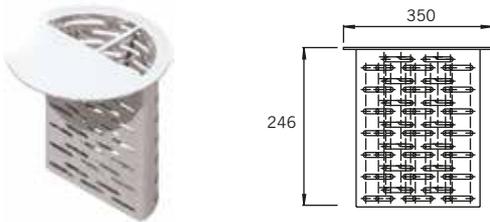
Part No	Description	Top size (mm)	Body dia (mm)	Depth* overall (mm)	Spigot dia (mm)	Flow rate (l/s)	Weight (kg)
05769	Gully 357 FXD Horizontal Outlet S/S 304	400×400	357	346	Ø200	9.5	12.10
15769	Gully 357 FXD Horizontal Outlet S/S 316	400×400	357	346	Ø200	9.5	12.10

Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

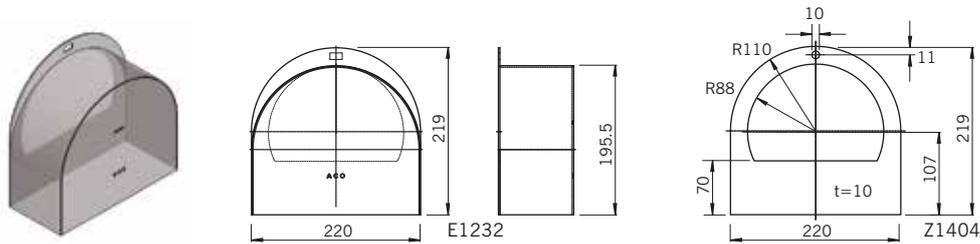
ACO Gully 357 – Fixed Height – Accessories and Replacement Parts



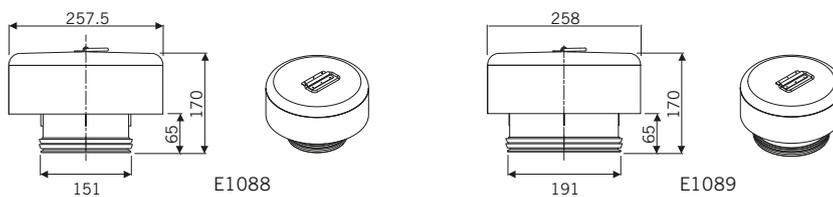
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
05790	Vertical Outlet Gully Silt Basket 9.5 litres capacity S/S 304	-	Ø350	125	-	1.76
15790	Vertical Outlet Gully Silt Basket 9.5 litres capacity S/S 316	-	Ø350	125	-	1.76



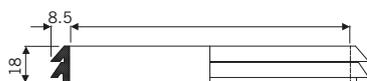
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
05791	Horizontal Outlet Gully Silt Basket 9.5 litres capacity S/S 304	-	Ø350	246	-	2.69
15791	Horizontal Outlet Gully Silt Basket 9.5 litres capacity S/S 316	-	Ø350	246	-	2.69



Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
E1232	Horizontal Foul Air Trap S/S 304	219	220	98	8.5/9.5	1.77
Z1404	Foul Air Trap Seal	220	220	10	-	0.05

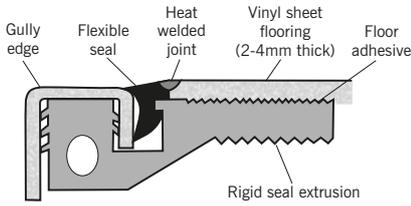


Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
E1088	Foul Air Trap S/S 304 (for 160mm Spigot Diameter)	-	Ø258	170	-	2.60
E1089	Foul Air Trap S/S 304 (for 200mm Spigot Diameter)	-	Ø258	170	-	2.80



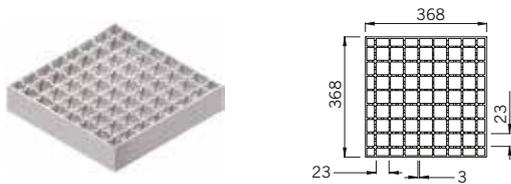
Part No	Description	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Flow rate (l/s)	Weight (kg)
E1578	Foul Air Trap Seal for E1088	-	Ø137	18	-	0.10
E1579	Foul Air Trap Seal for E1089	-	Ø177	18	-	0.10

ACO Gully 357 – Gratings for Top Size 400 x 400mm (40mm Deep)

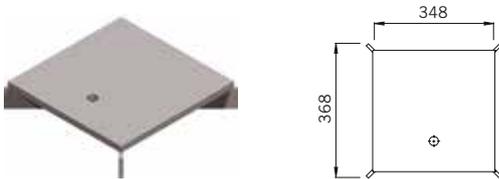


Ideal for vinyl/flexible sheet flooring applications, ACO Vinyl Seal® can be used to create a fully welded system that is watertight and improves hygiene performance by eliminating cumbersome mechanical clamping systems. **ACO Vinyl Seal® is not suitable for wooden or suspended floors.**

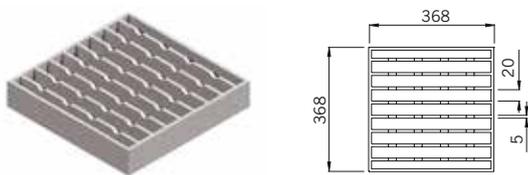
Part No	Description	Length overall (mm)	Weight (kg)
49454	Gully 357 Vinyl Seal® Kit (includes Flexible PVC Seal and Rigid PVC Extrusion)	0.60	26.85



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
05927	Plain Mesh S/S 304	Electropolished	C250	368	368	40	7.20
15927	Plain Mesh S/S 316	Electropolished	C250	368	368	40	7.20
05926	Slip Resistant Mesh S/S 304	Electropolished	C250	368	368	40	7.20
15926	Slip Resistant Mesh S/S 316	Electropolished	C250	368	368	40	7.20



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
05943	Slot Cover S/S 304	Pickled	C250	368	368	40	11.10
15943	Slot Cover S/S 316	Pickled	C250	368	368	40	11.10



Part No	Description	Finish	Load class	Length overall (mm)	Width overall (mm)	Depth overall (mm)	Weight (kg)
401694	Ladder S/S 304 (Reversible Plain or Slip Resistant)	Pickled	C250	368	368	40	11.50
401698	Ladder S/S 316 (Reversible Plain or Slip Resistant)	Pickled	C250	368	368	40	11.50

Please refer to page 24 for gully locking kits and appropriate wrench to complete locked grating system. Contact the ACO Building Drainage Team on 01462 810400 or email abdtechnical@aco.co.uk for further details.

ACO Engineered Solutions



Design Services - Let Us Help!

The ACO Building Drainage Design Services Team is staffed by engineers who live and breathe drainage systems. They can carry out design work on your behalf, ranging from drainage layouts through to hydraulic calculations and part scheduling.

Should you find that our standard product offering does not meet your application requirements our Design Services Team can carry out design work on your behalf and provide you with custom made engineered solutions including tundishes, additional

inlets, extended bodies or spigots and non-standard outlet sizes.

Contact the ACO Building Drainage Design Services team on 01462 810400 or email abdtechnical@aco.co.uk

Examples of our engineered products



ACO Micro Floor Gully Installation Recommendations

Step 1

Locate the drain in the correct position in the floor and connect to the drainage pipework system.

Step 2

Backfill around the drain and dress floor finish up to the drain edge. Remove any protective tape/film from the unit.

Step 3

A mastic sealant of bead width 5 - 8mm is recommended around the outside of the drain top edge and floor finish where a good watertight seal is required between the two materials.

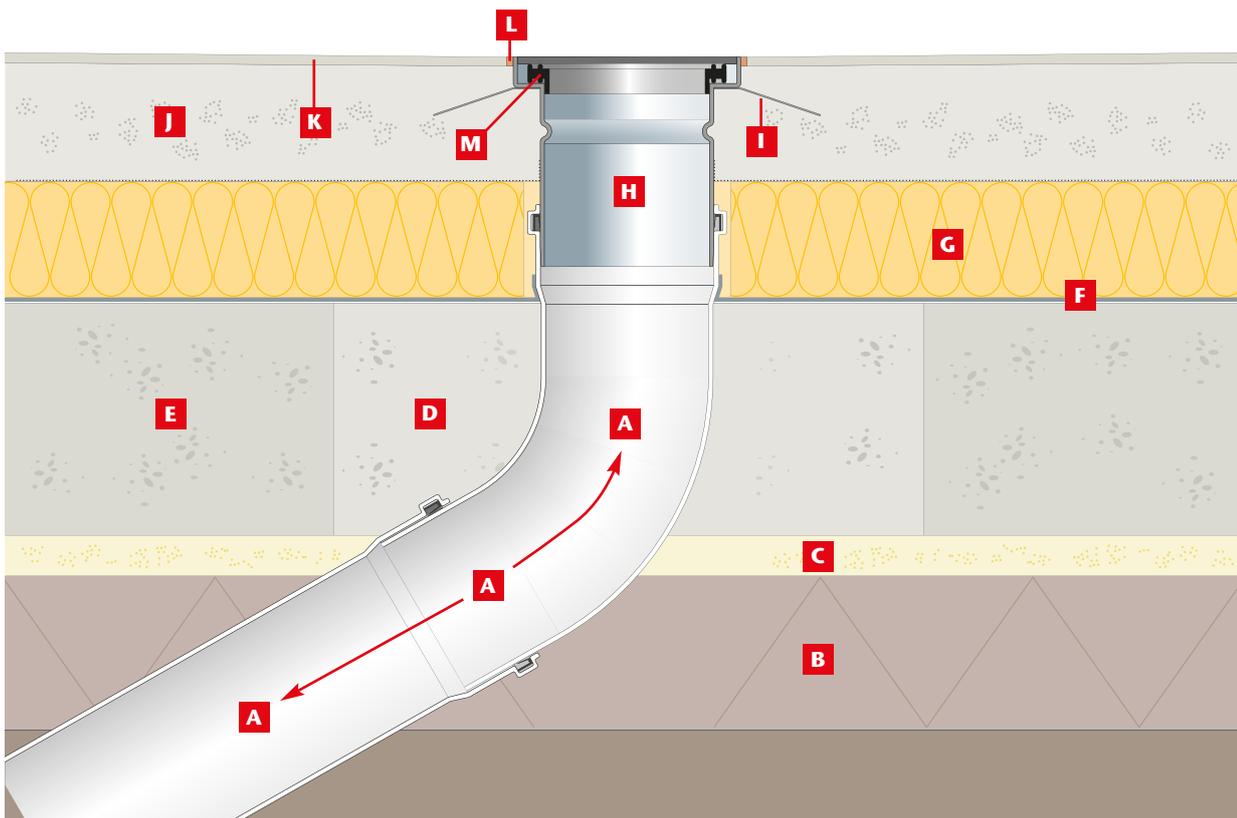
Step 4

Ensure the sealant is applied in accordance with the manufacturer's instructions.



ACO Rodding Eye Installation Recommendations

Direct connection rodding access with resin finish in ground floor



Step 1

Install access pipe **A** and prepare hardcore base **B** with sand blinding **C**. Cover pipe end, box out and backfill concrete **D** around pipe.

Step 2

Remove shuttering and pour concrete floor slab **E**.

Step 3

Lay DPM **F** and lay insulation **G** around access pipe.

Step 4

Connect square or circular rodding access top **H** to drain pipe and set to finished floor level. Bend down tangs **I** to key with screed.

Step 5

Lay the screed **J** to a 1:80 fall working the mix under the flange of the gully top. When dry, lay a resin finish **K** to required thickness leaving a 5mm gap **L** at the bezel edge for a gun applied flexible sealant.

Step 6

Fit double seal **M** and solid cover to suit.

ACO EG150 Gully Installation Recommendations

Step 1

Locate the gully in the correct position in the floor and connect to drainage pipework system.

Step 2

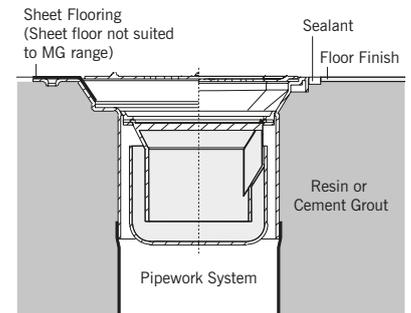
Backfill around the drain and dress floor finish up to the drain edge. Remove any protective tape/film from the unit.

Step 3

A mastic sealant of bead width 5 - 8mm is recommended around the outside of the drain top edge and floor finish where a good watertight seal is required between the two materials.

Step 4

Ensure the sealant is applied in accordance with the manufacturer's instructions.



ACO Gully 157, 200, 218 and 357 Fixed Height Installation Recommendations

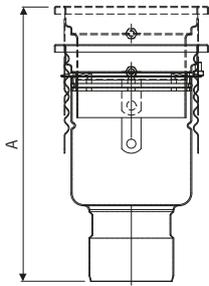
Fixed height gully installed in solid concrete floor

- 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 or hardcore

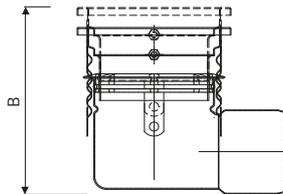


ACO Gully 157, 200, 218 and 357 Telescopic Height Installation Recommendations

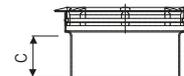
ACO Gully 157 and 218 - Telescopic - invert heights and adjustment depths



Vertical outlet telescopic gully



Horizontal outlet telescopic gully



Raising piece

Product	A (mm)	B (mm)	C - Vertical Gully (mm)	C - Horizontal Gully (mm)
Gully 157	310 to 360	216 to 244	70	50
Gully 218 (Ø110 Outlet)	318 to 367	223 to 251	70	50
Gully 218 (Ø160 Outlet)	292 to 251	n/a	70	50

Telescopic gully installed in solid concrete floor

- 1** Flexible vinyl sheet flooring
- 2** Mechanical vinyl clamp
- 3** Telescopic gully
- 4** Floor screed
- 5** Solid concrete floor slab
- 6** Compacted soil or hardcore



Installation guide

Telescopic flanged gully installed in suspended concrete slab construction

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



Telescopic flanged gully and raising flanged piece installed in suspended concrete slab construction

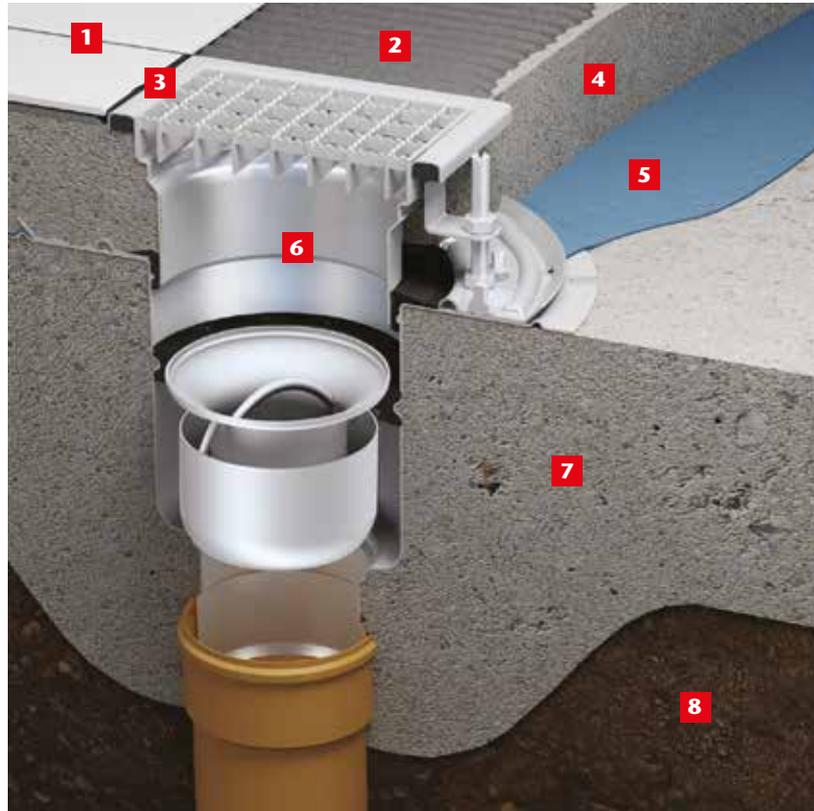
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Floor screed
- 5** Damp proof membrane (DPM)
- 6** Insulation
- 7** Double flange gully
- 8** Suspended concrete slab core-drilled to accept gully body



Installation guide

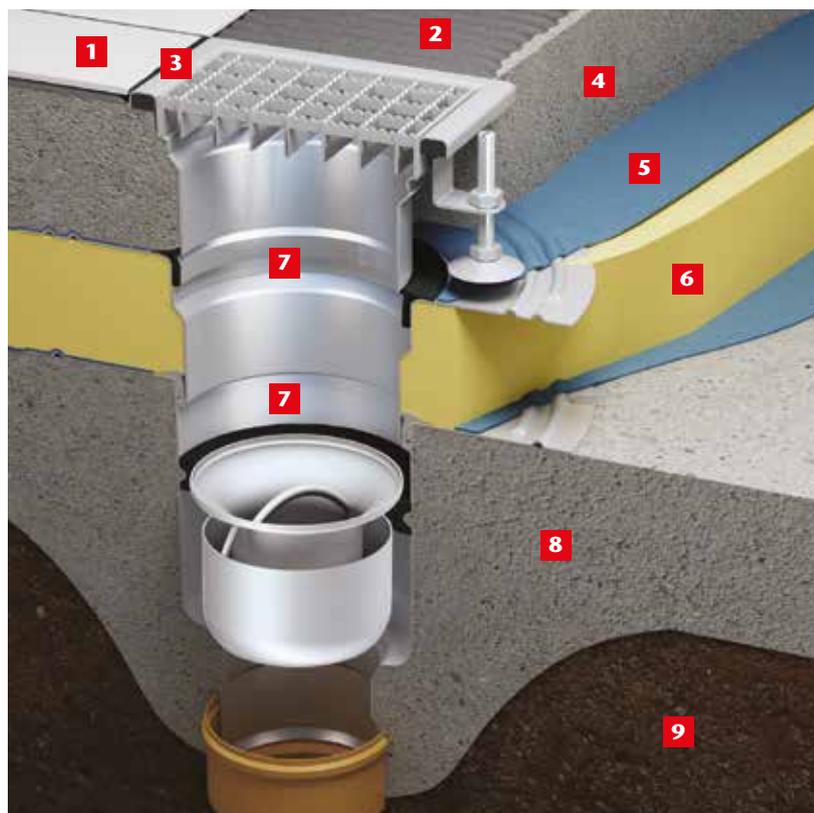
Telescopic flanged gully installed in solid concrete floor

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



Telescopic flanged gully and raising piece installed in solid concrete floor

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



Stainless Steel Explained

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

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

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

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

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

Stainless Steel Families

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

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

304 grade stainless steels contain around 18% chromium and 10% nickel and provides excellent corrosion resistance. For applications where superior corrosion resistance properties are required under extreme conditions particularly where chlorides are involved, 316 grade stainless steels are used and contain around 17% chromium, 12% nickel and 2.2% molybdenum.



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

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

Stainless Steel Corrosion Resistance

The single most important property of stainless steels and the reason for their existence and widespread use, is their natural corrosion resistance. In spite of their name, stainless steels can both 'stain' and corrode if used incorrectly.

The reason for the good corrosion properties is due to the formation of a very thin, invisible oxide film that forms on the surface of the material in oxidising environments such as the atmosphere and water.

This film is a chromium-rich oxide which protects the steel from attack in aggressive environments. As chromium is added to a steel, a rapid reduction in the corrosion rate is observed because of this protective film. In order to obtain a compact and continuous passive film, a chromium content of at least 11% is required. Passivity increases fairly rapidly with increasing chromium content up to about 17% chromium.

The most important alloying element is therefore chromium, but a number of other elements including nickel, molybdenum and nitrogen also contribute to the corrosion resistance properties of stainless steels. Other alloying elements may also be added to enhance the corrosion resistance in particular environments.

Stainless steels must oxidise in order to form the passive, chromium-rich oxide film. Stainless steels have a very strong tendency to passivate and only a small amount of oxidising agents are needed for passivation - air and water are sufficient to passivate stainless steels and indeed, this oxide film is spontaneously regenerated when exposed to oxygen. An important factor to note is that the passive film is self-healing, so when the material is cut or machined or, should chemical or mechanical damage occur, the passive film will 'heal' or re-passivate in oxidising environments - unlike a painted finish on mild steel.

Selection of the correct grade of material for each application is an important factor in the design process. It is important to note that even 316 grades of stainless steel are not immune to all kinds of chemical attack; use of reducing solutions such as hydrochloric and sulphuric acids particularly when in concentrated and/or hot form, requires careful consideration. See corrosion resistance chart on pages 62 and 63.

Stainless Steel Finishing Processes

A stainless steel finish should appear clean, smooth and faultless. This is obvious when the steel is used for such purposes demanding stringent hygiene or decorative trim applications, but a fine surface finish is also crucial in respect to its corrosion resistant properties.

The corrosion resistance properties of stainless steel are achieved by the spontaneous formation of a very thin chromium-rich oxide layer over the surface of the material. Unfortunately, surface defects and imperfections introduced during the manufacturing process may drastically disturb the self healing process of the passive layer and subsequently reduce the corrosion resistance of the material.

In the manufacturing process it is welding that creates the greatest challenge to corrosion resistance.

Untreated Stainless Steel



After welding stainless steel, a bluish high temperature oxide film can be seen which has substantially inferior corrosion protection properties compared to the original passive layer. Immediately beneath this blue oxide film is a thin layer of chromium depleted metal which makes the metal surface susceptible to corrosion. Post weld treatment is, therefore, very important to restore the corrosion protection properties and is effectively achieved by removing the blue high temperature oxide film and chromium depleted layer to restore the surface of the material. This 'cleaning' is essentially a controlled corrosion process using chemicals, this will restore not only its original corrosion resistance performance but also the high quality aesthetics.

The single most important property of stainless steels and the reason for their existence and widespread use, is their natural

corrosion resistance. In spite of their name, stainless steels can both 'stain' and corrode if used incorrectly.

The reason for the good corrosion properties is due to the formation of a very thin, invisible oxide film that forms on the surface of the material in oxidising environments such as the atmosphere and water.

ACO Pickle Passivation Plant



All ACO Building Drainage products are subjected to specialised treatment to ensure the material retains the maximum resistance to corrosion.

The chemical processing methods used in the ACO Building Drainage process are pickle passivation and electropolishing. ACO resources include the largest pickle passivation plant in Europe.

Pickle Passivation

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



Pickle Passivation is a two-phase process. Pickling removes both the bluish high temperature oxide film and the chromium depleted layer and is achieved by placing the components in a pickling bath containing a

mixture of nitric acid and hydrofluoric acid.

The second phase is passivation and in many ways is similar to the pickling process. During this process the components are placed in a bath containing only nitric acid. This treatment strengthens the passive layer and also removes any iron impurities that may have become embedded in the surface of the stainless steel during the manufacturing process.

This treatment is important where mechanical cleaning of the components has taken place with the use of wire brushes, grinding wheels and files where iron particles from other materials may contaminate the stainless steel surface.

Electropolishing



Electropolishing is ideal for producing a uniform, highly reflective lustre with an extremely smooth finish even on the most complex product contours. This is a well proven method of polishing and is achieved by an electro-chemical process which is essentially the reverse of electroplating.

The components are immersed in a bath of electrolyte containing phosphoric acid where the components become the anode of a direct current electrical circuit. The process is characterised by the selective attack on the surface of the components whereby upstanding roughnesses are preferentially dissolved and will yield a progressively smoother, brighter surface.

For pharmaceutical and food processing industries, bacterial resistance is considerably improved by the electropolishing process.

Certain gratings within the ACO Building Drainage range are electropolished as standard. All stainless steel products can be electropolished if required to special order.

Corrosion Resistance Chart

Reagent	Stainless Steel 304	Stainless Steel 316	EPDM	Neoprene Gasket	Viton Gasket
Acetic Acid 20%	●	●	●	?	●
Acetic Acid 80%	●	●	●	x	●
Acetone	●	●	●	●	x
Alcohol (Methyl or Ethyl)	●	●	●	●	?
Aluminium Chloride	?	?	●	●	●
Aluminium Sulphate	●	●	●	●	●
Ammonia Gas (Dry)	●	●	~	●	~
Ammonium Chloride	?	?	●	●	●
Ammonium Hydroxide	●	●	●	●	●
Ammonium Nitrate	●	●	●	●	●
Ammonium Phosphate	●	●	●	●	●
Ammonium Sulphate	?	●	●	●	●
Ammonium Sulphide	●	●	~	~	~
Amyl Chloride	●	●	x	~	?
Aniline	●	●	?	x	●
Barium Chloride	●	●	●	●	●
Barium Hydroxide 10%	~	~	●	●	●
Barium Sulphate	●	●	●	●	●
Barium Sulphide	~	~	●	●	●
Beer	●	●	●	●	●
Beet Sugar Liquors	●	●	●	●	●
Benzene	●	●	x	x	●
Benzoic Acid	●	●	x	●	●
Bleach -12.5%Active C1	~	~	●	x	x
Boric Acid	●	●	●	●	●
Bromic Acid	?	?	~	~	~
Bromine Water	x	x	~	x	~
Butane	●	●	x	●	●
Calcium Carbonate	●	●	●	●	●
Calcium Chloride	x	?	●	●	●
Calcium Hydroxide	?	●	●	●	●
Calcium Hypochlorite	x	?	?	x	●
Calcium Sulphate	●	●	●	~	●
Cane Sugar Liquors	~	~	●	●	●
Carbon Acid	~	~	●	●	●
Carbon Bisulphide	●	●	x	x	●
Carbon Dioxide	●	●	●	●	●
Carbon Monoxide	●	●	●	●	●

Reagent	Stainless Steel 304	Stainless Steel 316	EPDM	Neoprene Gasket	Viton Gasket
Carbon Tetrachloride	?	?	x	x	●
Caustic Potash	●	●	●	~	●
Caustic Soda	●	●	●	●	●
Chloride (Dry)	?	?	●	x	●
Chloride (Wet)	x	x	x	x	?
Chloroacetic Acid	~	●	?	x	●
Chlorobenzene	●	●	x	x	●
Chloroform	?	?	x	x	●
Chrome Acid 50%	x	x	?	x	●
Chromic Acid 10%	●	●	x	x	●
Citric Acid	?	●	●	●	●
Copper Chloride	x	x	●	●	●
Copper Cyanide	●	●	●	●	●
Copper Nitrate	●	●	~	●	●
Copper Sulphate	●	●	●	●	●
Cottonseed Oil	~	~	x	●	●
Cresol	~	~	x	x	x
Cyclohexanone	?	●	●	x	x
Cyclohexanol	~	~	x	●	x
Dimethyleanine	~	~	?	●	●
Dionylphalate	~	~	?	x	x
Disodium Phosphate	~	~	●	x	●
Distilled Water	●	●	●	●	●
Ethyl Acetate	●	●	?	x	x
Ethylene Chloride	●	●	x	x	?
Ethylene Glycol	●	●	●	●	●
Fatty acids (Cb)	●	●	x	?	●
Ferric Sulphate	●	●	●	●	●
Fluorene Gas (wet)	x	x	●	x	?
Formaldehyde (37%)	●	●	●	●	●
Formic Acid (90%)	x	●	●	●	?
Freon 12	●	●	●	●	●
Fruit Juices and Pulp	?	●	~	●	●
Furfural	●	●	x	x	x
Gasoline (Refined)	●	●	x	●	●
Glucose	●	●	●	●	●
Glycerine	●	●	●	●	●

The corrosion resistance information contained within this table is indicative only.

All data is based on reactions noted at an ambient temperature of 20°C. Higher temperatures will generally reduce the corrosion resistance of the materials.

Please contact ACO Building Drainage if

advice is required of specific material suitability.

We shall arrange for tests to be undertaken with the reagent to establish the chemical resistance of the materials. Other gasket and sealing ring materials are available. Please contact us for further information.

- Recommended
- ? Suitable. However, contact ACO Building Drainage for further advice.
- x Not recommended
- ~ No data available

Corrosion Resistance Chart

Reagent	Stainless Steel 304	Stainless Steel 316	EPDM	Neoprene Gasket	Viton Gasket
Hydrobromic Acid (20%)	x	x	●	x	●
Hydrochloric Acid (40%)	x	x	x	●	●
Hydrocyanic Acid	●	●	?	●	●
Hydrogen Peroxide (90%)	●	●	x	x	●
Hydroquinone	~	~	x	●	●
Hypochlorous Acid	~	~	x	x	●
Iodine	x	?	?	x	●
Kerosene	●	●	x	●	●
Lactic Acid 25%	●	●	●	●	●
Linseed Oil	●	●	x	●	●
Liqueurs	~	~	?	x	●
Magnesium Chloride	?	?	●	●	●
Magnesium Sulphate	●	●	●	●	●
Maleic Acid	?	?	x	x	●
Methyl Chloride	?	?	x	x	●
Methyl Ethyl Ketone	~	~	●	x	x
Milk	●	●	●	●	●
Minerals Oils	~	~	x	●	●
Muriatic Acid	x	x	?	●	●
Nickel Chloride	?	?	●	●	●
Nickel Sulphate	●	●	●	●	●
Oils and Fats	●	●	?	?	●
Oleic Acid	●	●	●	?	●
Oleum	~	~	x	x	●
Oxalic Acid	?	?	●	x	●
Palmitic Acid 10%	~	~	●	x	●
Perchloric Acid 10%	x	x	?	●	●
Perchloric Acid 70%	x	x	?	x	●
Petroleum Oils (Sour)	●	●	x	●	●
Phenol 5%	●	●	?	x	●
Phosphorous Trichloride	●	●	●	x	●
Photographic Solutions	?	?	●	●	●
Picric Acid	●	●	●	●	●
Plating Solutions	~	~	~	x	●
Potassium Carbonate	●	●	●	●	●
Potassium Chloride	●	●	●	●	●
Potassium Cyanide	●	●	●	●	●
Potassium Dichromate	●	●	●	●	●
Potassium Hydroxide	●	●	●	●	●
Potassium Permanganate	●	●	●	●	●
Potassium Sulphate	●	●	●	●	●
Propane Gas	~	~	~	?	●
Propyl Alcohol	~	~	●	●	●

Reagent	Stainless Steel 304	Stainless Steel 316	EPDM	Neoprene Gasket	Viton Gasket
Sea Water	x	?	●	●	●
Sewage	?	?	●	●	●
Silver Nitrate	●	●	●	●	●
Silver Sulphate	●	●	●	●	x
Sodium Bicarbonate	●	●	●	●	●
Sodium Bisulphite	●	●	●	●	x
Sodium Carbonate	●	●	●	●	●
Sodium Cyanide	●	●	●	●	●
Sodium Ferrocyanide	~	~	?	●	●
Sodium Hydroxide	●	●	●	●	●
Sodium Hypochlorite	?	●	?	●	●
Sodium Sulphate	●	●	●	●	●
Sodium Sulphide	?	●	●	●	●
Sodium Sulphite	?	●	●	●	●
Sodium Thiosulphate	●	●	●	●	●
Stannous Chloride	?	?	x	●	●
Stearic Acid	●	●	?	●	●
Sulphite Liquor	~	~	?	●	●
Sulphurous Acid	?	?	?	x	●
Sulphur	?	●	~	●	●
Sulphur Dioxide (Dry)	?	●	●	x	●
Sulphur Dioxide (Wet)	?	●	●	●	●
Sulphuric Acid 50%	x	x	?	●	●
Sulphuric Acid 70%	x	x	?	●	●
Sulphuric Acid 93%	x	x	?	x	●
Tannic Acid	●	●	●	●	●
Tanning Liquors	●	●	●	●	●
Tartaric Acid	~	~	?	●	●
Toluene	~	~	x	x	x
Trichloroethylene	●	●	x	x	x
Triethanolamine	~	~	●	●	x
Trisodium Phosphate	~	~	●	●	●
Turpentine	●	●	x	x	●
Urea	●	●	●	●	●
Urine	●	●	●	●	●
Vinegar	●	●	●	●	●
Water (Fresh)	●	●	●	●	●
Water (Mine)	●	●	●	●	●
Water (Salt)	?	?	●	●	●
Whisky	●	●	●	●	●
Wines	●	●	●	●	●
Xylene	~	~	x	x	x
Zinc Chloride	x	x	●	●	●
Zinc Sulphate	?	●	●	●	●



Care and Maintenance of ACO Stainless Steel Gully Systems

Care During Installation

Surface contamination and the formation of deposits must be prevented during installation in order to maintain a durable and hygienic surface. These deposits may be minute particles of iron or rust from other sources used in the building environment. Wire brushes and wire wool **must not** be used to remove marks and cement spillages as this will introduce iron impurities to the material surface. Care must also be taken when storing, erecting or cutting carbon steel near to stainless steel.

Factors Affecting Maintenance

Cleaning before handing over to the client should present no special problems if care during installation has been taken, although more attention may be required if the installation period has been prolonged.

Where surface contamination is suspected, immediate attention to cleaning after site fixing will encourage a trouble free product.

Although robust, all grades of stainless steel will stain and discolour due to surface deposits and therefore can never be accepted as completely maintenance free. In order to

achieve maximum corrosion resistance, the surface of the stainless steel must be kept clean. Provided the grade of stainless steel and the surface finish are correctly selected, and cleaning schedules carried out on a regular basis, excellent performance and long service life are assured.

Industrial and even naturally occurring atmospheric conditions can produce deposits which can be corrosive, e.g. salt deposits from marine conditions.

High humidity environments (e.g. swimming pools) increase the speed of discolouration and therefore require maintenance on a more frequent basis.

Modern processes use many cleaners, sterilisers and bleaches for hygienic purposes which when used in accordance with manufacturers instructions are safe, but if used incorrectly (e.g. warm or concentrated) can cause discolouration and corrosion on the surface of all stainless steel.

Strong acid solutions used to clean masonry and tiling of buildings should never be permitted to come into contact with stainless steel. If this should happen the acid solution must be removed immediately by copious application of water.

Maintenance Programme

Advice is often sought concerning the frequency of cleaning stainless steel and the answer is quite simple: clean the metal when it is dirty in order to restore its original appearance. This may vary from once to four times a year for external applications or it may be once a day for an item in hygienic or aggressive situations (food, beverage, pharmaceutical and chemical applications).

Frequency and cost of cleaning is lower with stainless steel than with many other materials, and will often outweigh the initial higher cost of this superior product.

Cleaning Methods

ACO Stainless Steel Gully system components are easy to clean. Washing with soap or a mild detergent and warm water followed by a clear water rinse is usually adequate. An enhanced aesthetic appearance will be achieved if the cleaned surface is wiped dry.

Precautions

Acid cleaners should be used for cleaning **only** when other methods have proved unsatisfactory. Manufacturers directions should be followed.

Problem	Cleaning Agent	Recommendation
Routine cleaning	Soap or mild detergent and water (e.g. washing up liquid)	Sponge, rinse with clean water, wipe dry if necessary
Fingerprints	Soap and warm water or organic solvent (e.g. acetone, alcohol)	Rinse with clean water, wipe dry if necessary
Stubborn stains and discolouration	Mild cleaning solutions (e.g. Cif, Goddard Stainless Steel Care)	Clean after with soap and water, rinse with clean water and dry, if necessary
Oil and grease marks	Organic solvents (e.g. acetone, alcohol)	After solvent use clean with soap and water, rinse with clean water and dry, if necessary
Rust and corrosion	Most mild corrosion and staining effects can be removed by the application of commercially available metal polishes. Check manufacturer's details before use	Rinse well with copious amounts of clean water (precautions for acid cleaners should be observed)
Scratches on brushed finishes	Household synthetic fibre scouring pads (e.g. Scotch Brite fibre pad)	Apply in direction of brushed finish. Clean with soap or detergent as per routine cleaning. Never use ordinary steel wool as iron particles can become embedded in the surface being cleaned and cause corrosion

Always read instructions on proprietary cleaning agents!

Associated ACO Building Drainage Product Ranges

ACO Modular 125

ACO Modular 125 Stainless Steel linear drainage is our most requested product range as it is suitable for most applications. ACO Modular 125 is manufactured in stainless steel grade 304 as standard and 316 to order. Available in a wide range of lengths, constant depths, sloping inverts and gratings 'off the shelf', it can be modified to meet your exact application requirements. Used together with ACO Gully 157 or 218 and ACO PIPE® it offers the specifier, contractor and user the benefits of a unified system for building drainage and one stop drainage solution with unique advantages – fully tested and classified to BS EN 1433, CE marked, pickle passivated for optimum durability and corrosion resistance, vee-bottomed profiled channel for enhanced flow efficiency, optional grating security locks and lightweight channel sections for safe and easy installation.



ACO PIPE®

ACO PIPE® is manufactured from thin-wall austenitic stainless steel in grades 304 and 316 and is pickle passivated for optimum durability and corrosion resistance. ACO PIPE® is available in a wide range of socketed waste pipework products and accessories for above and below ground rainwater and industrial wastewater drainage applications. Used together with other ACO products it creates a perfect system and one stop sustainable drainage solution with unique advantages to the customer – lightweight, easy installation, low thermal expansion co-efficient, sustainable material, hygienic, near zero maintenance. When used with ACO stainless steel gullies and channel systems it provides a unique system for building drainage.



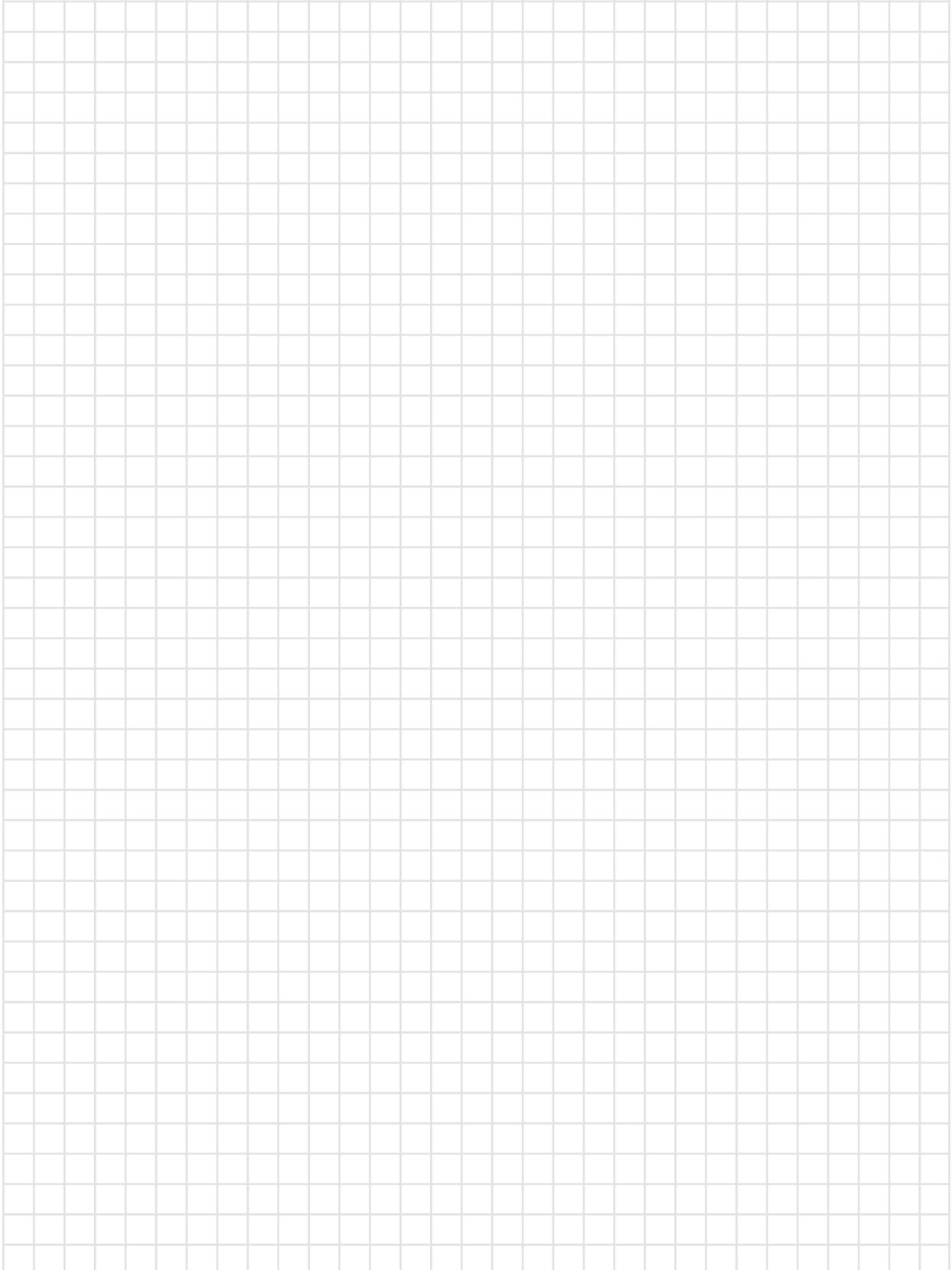
ACO Engineered Solutions

ACO Engineered Solutions offer the designer / specifier a range of products virtually free from the constraints of 'off the shelf' items. Our engineers are able to offer detailed advice on all aspects of required design solutions, together with hydraulic flow analysis, practical site installation, suitable materials and best practices. ACO Engineered Solutions enjoy rigorous product management from initial enquiry through to post-delivery.

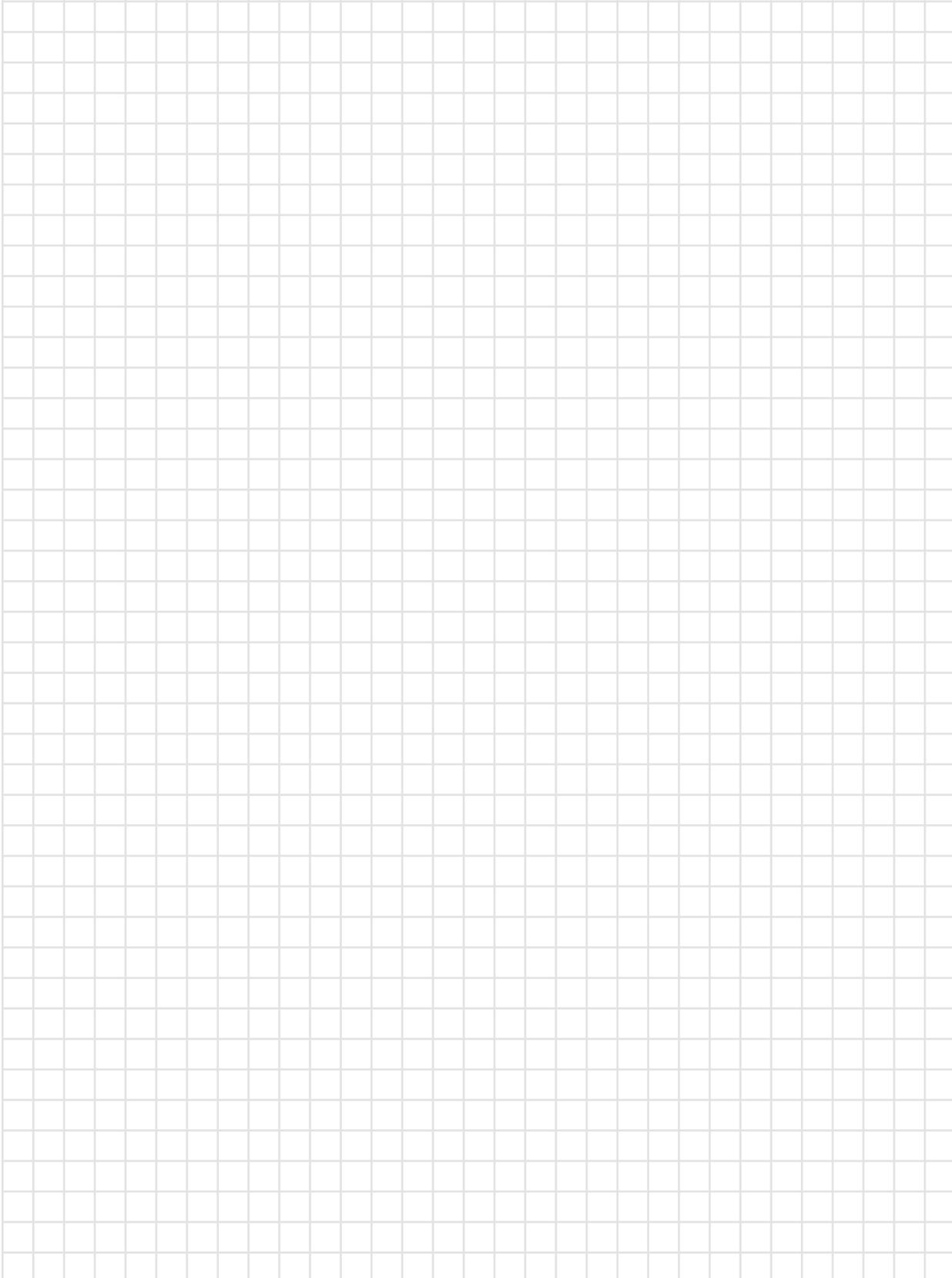
Examples of ACO Engineered Solution applications include:

- Workable drainage where there is limited invert depths
- Refurbishment situations with replacement channels and point drainage
- Interface with threshold details
- Discreet channel applications
- Radius channel applications

Notes

A large, empty grid of small squares, intended for taking notes. The grid is composed of 20 columns and 30 rows of squares, with thin gray lines separating each cell.

Notes



ACO Technologies plc

- ACO Building Drainage
- ACO Water Management
Civils + Infrastructure
Urban + Landscape
- ACO Sport
- ACO Wildlife



ACO Building Drainage

A division of ACO Technologies plc

ACO Business Centre

Caxton Road

Bedford

Bedfordshire

MK41 0LF

Tel: 01462 810400

Fax: 01462 851490

e-mail: abdinfo@aco.co.uk

www.acobd.co.uk

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