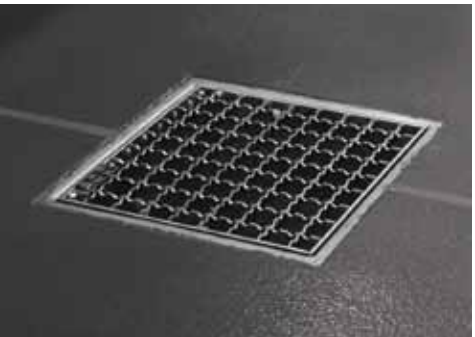

ACO GULLY

Technical Handbook and Product Catalogue

collect

Stainless steel bucket traps

Stainless steel floor wastes

ACO

The ACO Group

Founded in 1946, the ACO Group manufactures products for the building and construction industry.

ACO was established in Australia in 1993 and is Australasia's leading manufacturer of drainage products.

ACO has extensive experience in manufacturing and supplying a diverse range of stainless steel drainage systems throughout Australia and overseas.

ACO Gully

A range of stainless steel floor gullies with a variety of grates and bodies for vertical or horizontal pipe connections.

ACO's stainless steel gullies are compliant to AS 3495 and are manufactured and tested in accordance with EN 1253 – Gullies for buildings.

In addition to this, all products have WaterMark approval. This is granted to products that comply to AS 5200.000 or AS 3495 and certified in accordance with ISO/IEC Guide 67.2004, System 1b.

WaterMark
ATS 5200.040 & AS 3495
CERTIFICATE NO. 687

A range of cast iron roof and floor gullies is also available from the ACO Wexel range. For more information, contact ACO.

Areas of application

- Kitchens
- Food processing factories
- Brewing, bottling and canning plants
- Chilled warehouses
- Laboratories
- Pharmaceutical and Chemical plants
- Indoor sport centres
- Human and animal healthcare facilities

ACO. The future of drainage.

System Chain

ACO is a global leader in water management, with products to collect, clean, hold and release water; addressing all phases of the water cycle and supporting water sensitive urban design.

ACO Gully focuses on products that address the 'collect' phase of the water cycle.

Service Chain

To support this extensive product range, ACO provides full support from design conception to final installation.

Services include full in-house project specific design services, field support and post-installation advice. Product training and continuing professional education seminars provide updates to the design community in the latest product innovation.

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Introduction

ACO Gully is a range of fixed and adjustable height stainless steel floor wastes, designed for use in commercial and industrial projects where hygiene, durability and performance requirements are paramount.

A variety of products are available to suit a range of applications, including a choice of stainless steel bucket traps, grates and internal foul air traps (FATs) for where construction height is limited.

Range includes

1. Gullies to suit 200mm, 300mm square and round grates
2. Gullies for DN100, DN150 horizontal and vertical pipe connection
3. Gullies in fixed height or adjustable height styles
4. A full range of grates, bucket traps and accessories

The benefits

- Designed for optimum hygiene performance to EN 1672, EN ISO 14159 and EHEDG guidelines
- Deep drawn bodies enable full drainage, eliminating stagnant wastewater, smells and microbial growth
- Pickle passivated, and therefore highly corrosion resistant
- Resistant to temperature extremes and shocks
- Linished for optimal aesthetics
- Load compliant and slip resistant grates
- Optional AS 3495 compliant internal foul air traps for limited depth applications

Load class

There is no Australian Standard that governs the performance of floor gullies. ACO believes that EN 1253, specifically written to regulate these types of products, is the most appropriate International Standard.

EN 1253 – Gullies for buildings

1. Scope

'This Standard classifies gullies, gives guidance for places of installation and specifies requirements for construction, design, performance and marking of factory gullies, irrespective of material, for use in drainage systems operating under gravity including siphonic systems.'

The table below is created to give designers, installers and users assistance in selecting the correct product.

The table is based on loadings outlined in EN 1253 and is cross referenced with AS 3996 – *Access Covers and Grates*, the most relevant Australian Standard for load classifications. ACO has gained NATA accreditation (No.15193) for its testing laboratory and can provide test reports to EN 1253.

Standards only give an objective means for comparing products. There are a number of key factors affecting a product's resistance to load and additional consideration must be given to:

1. **Type of traffic**
   Consider the weight of loads being carried, for example forklifts, trolleys and trucks.
2. **Wheel type**
   Solid tyres exert more stress through smaller contact areas than pneumatic tyres, so a heavier duty grate may be required. Note, laden trolleys can intensify the load.
3. **Frequency and speed of traffic**
   More frequent and faster traffic can intensify the load.
4. **Position of gully**
   If the product is positioned where traffic will be turning or braking, or if it is installed at the bottom of a ramp, the gully will be subjected to extreme forces.

NATA
WORLD RECOGNISED ACCREDITATION

EN 1253 – Gullies for buildings					
Load Classes					
H1.5 *1.5kN*	**K3** *3kN*	**L15** *15kN*	**R50**[1] *50kN*	**M125** *125kN*	No classification exists
Non-load bearing areas, inaccessible to all types of traffic	Pedestrian areas, change rooms, toilets and areas inaccessible to regular vehicular traffic	Light commercial and industrial areas inaccessible to solid tyres	Light commercial and industrial areas accessible to solid tyres	Commercial and industrial areas accessible to solid tyres and pallet jacks	Commercial and industrial areas subject to heavy traffic
Slow moving wheel load (Pneumatic tyres)					
N/A	150kg	700kg	2500kg	5000kg	8000kg
Slow moving wheel load (Solid tyres)					
N/A	N/A	N/A	500kg	750kg	1000kg
Equivalent classification to AS 3996 – Access Covers and Grates					
Load Classes					
		A *10kN*	**B** *80kN*	**C** *150kN*	**D** *210kN*

[1] Draft prEN 1253

Note: For higher load classes contact ACO.

Standards

Hygiene

In order to maintain a clean and hygienic environment, it is essential that drainage elements are designed and manufactured to minimise bacteria traps.

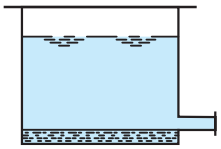
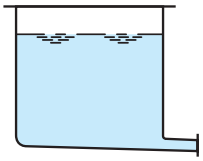
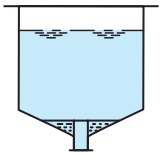
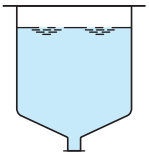
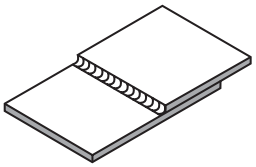
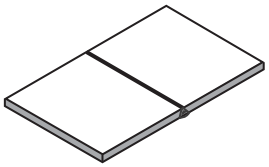
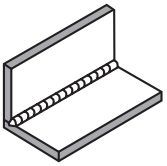
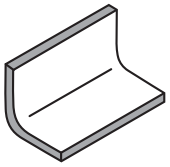
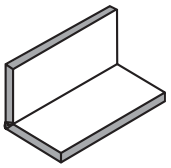
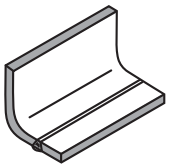
ACO Gully is designed for optimum hygiene performance, taking into account guidelines described in EN 1672, EN ISO 14159 and the European Hygienic Engineering and Design Group (EHEDG).

EN 1672 and EN ISO 14159 are standards that set out hygiene requirements for use in food processing.

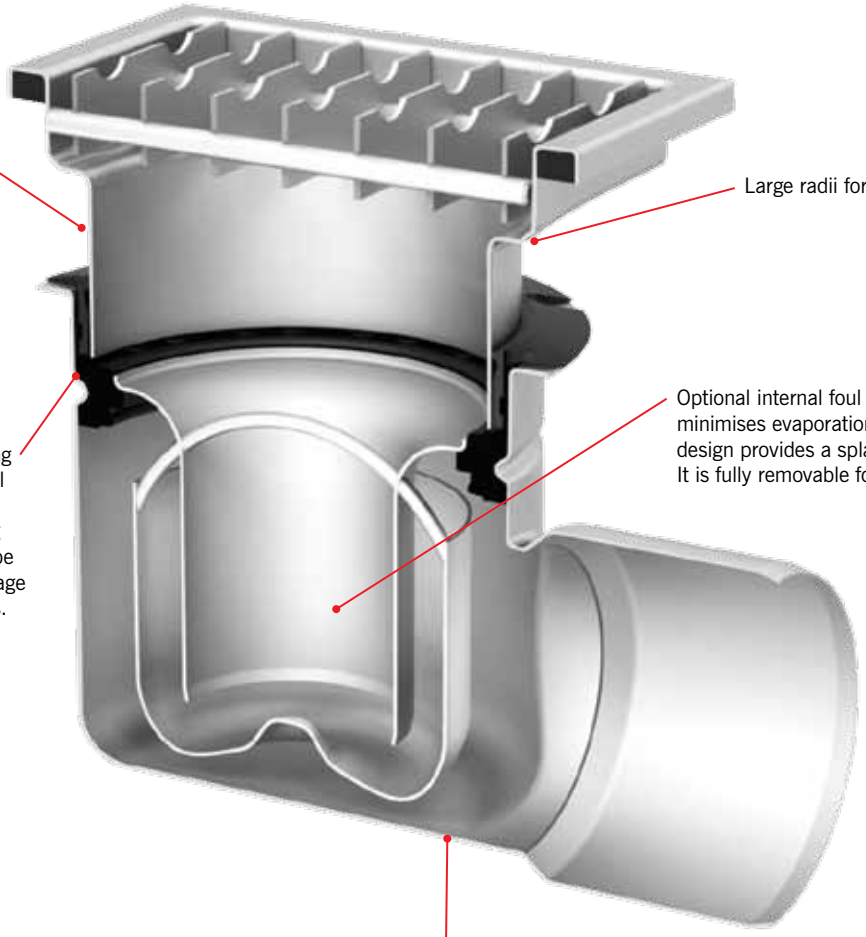
EHEDG is a consortium of food industries, public health authorities, research institutes and equipment manufacturers. Their mission is to promote hygiene through improved hygienic engineering and design relating to all aspects of food manufacture. EHEDG principles are being recognised by designers and planners worldwide, including Australia.

Slip resistance

Slip resistant grates are recommended for installation in commercial kitchen and food processing area's to reduce the risk of serious injury were high temperature food and equipment is used.

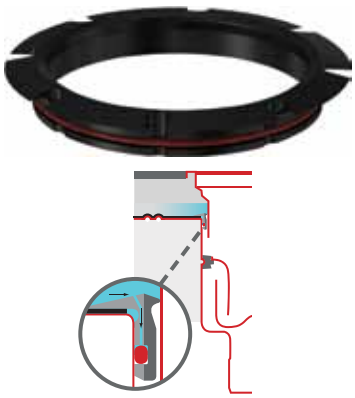
Hygiene risk According to standards EN 1672 and EN ISO 14159	Hygienic design According to standards EN 1672 and EN ISO 14159
✗  Inferior drainage design	✓  Superior drainage design
✗  Inferior drainage design	✓  Superior drainage design
✗  Continuously welded lap joint	✓  Continuously welded butt joint
✗  Welded in corners	✓  Round internal corner
✗  Welded in corners	✓  Welded in smooth area

Adjustable height gully features



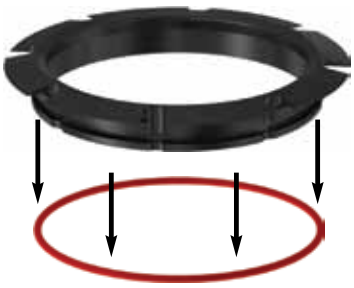
Friction ring

Sealing function



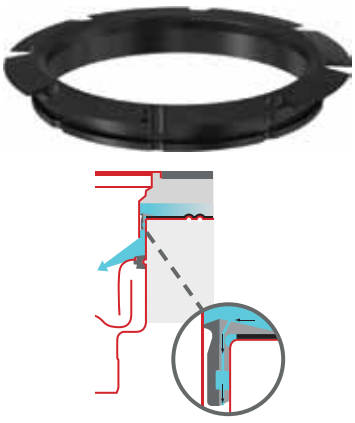
*Patent pending.

Easy removable sealing ring

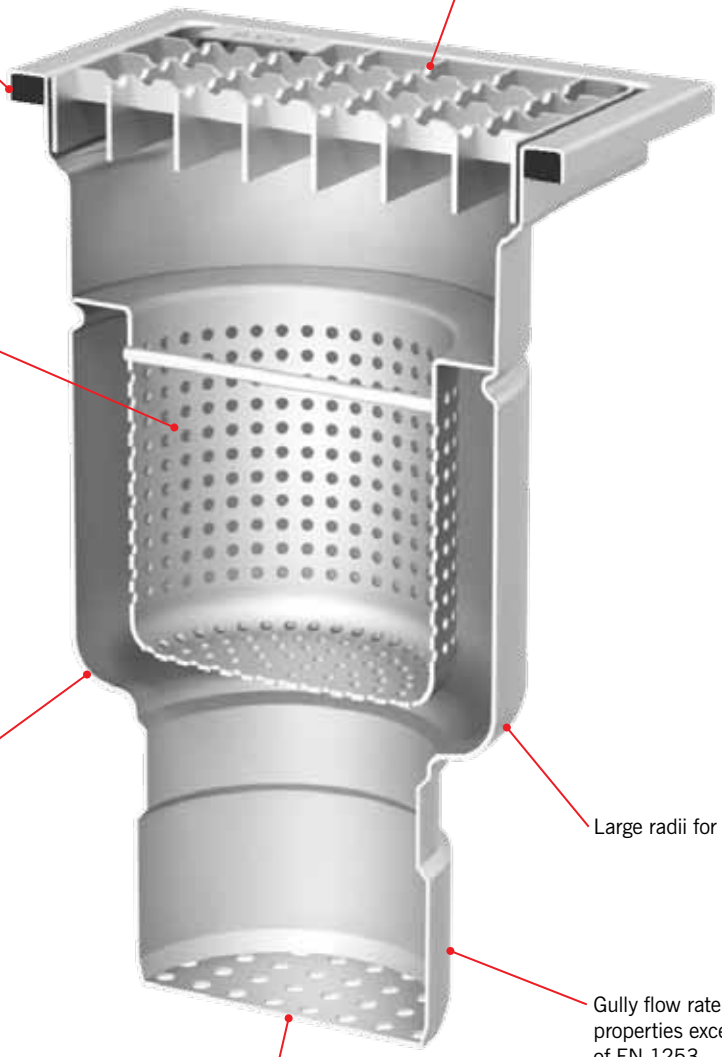


Removal of the red O-ring creates subsurface (membrane) drainage when used with a waterproofing bonding flange.

Drainage function



Fixed height gully features

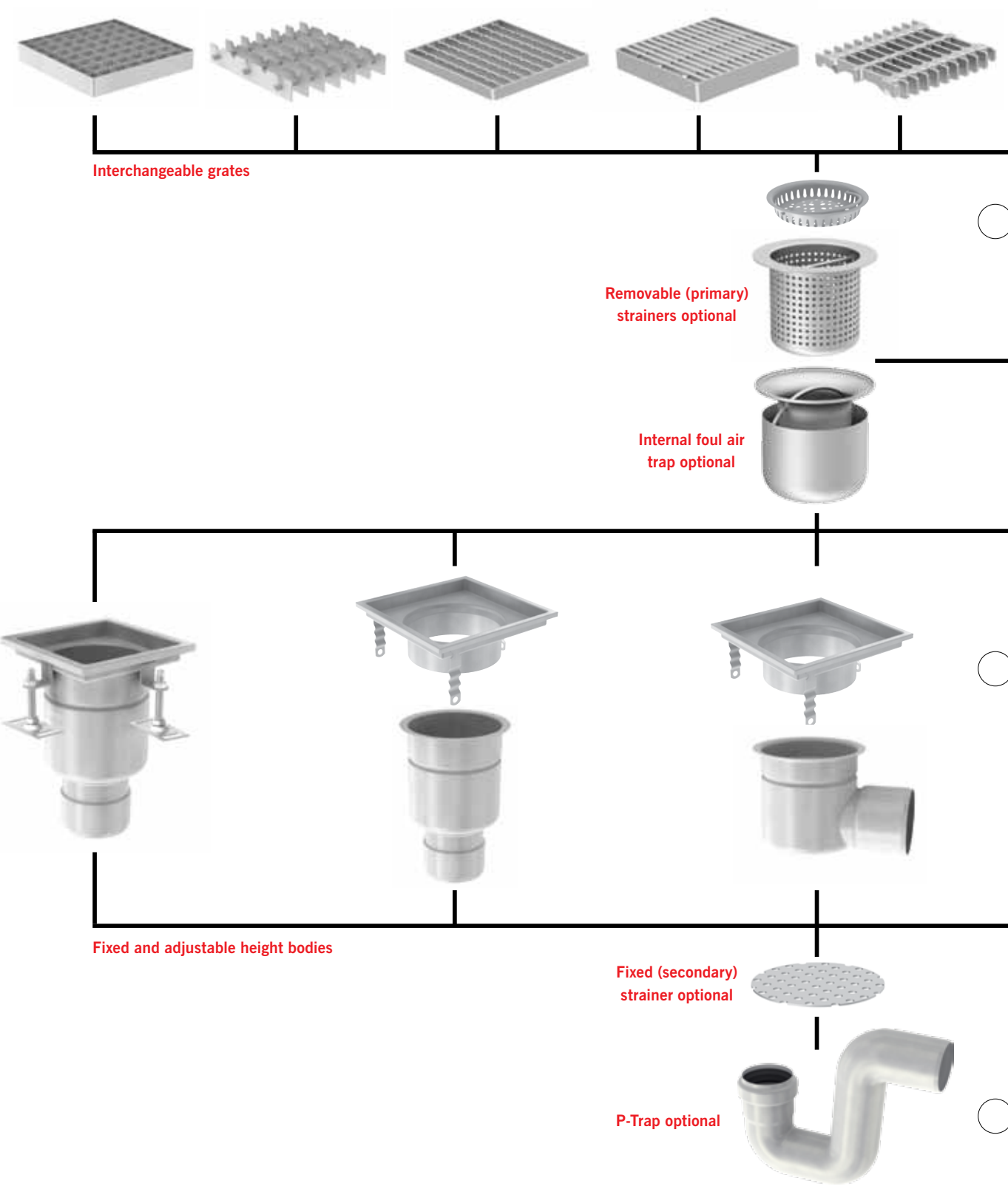


System overview – fixed and adjustable height gullies

ACO Gully is available in a number of versions featuring different sizes, flow rates, grate designs and outlet diameters to suit various applications. ACO offers five gully configurations as shown below.

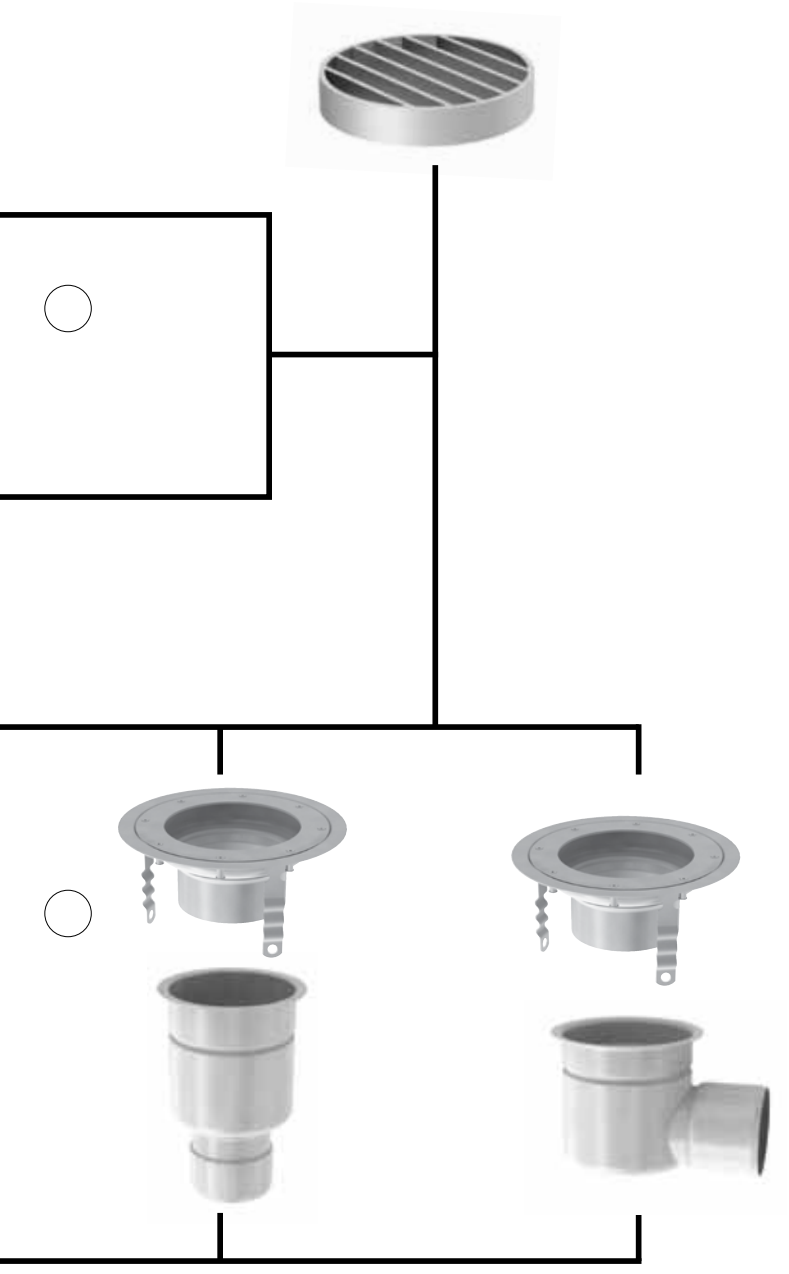
Gully 157 – 200mm square and round grates

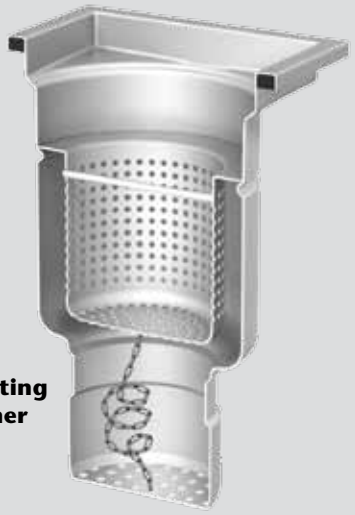
Gully 218 – 300mm square and round grates



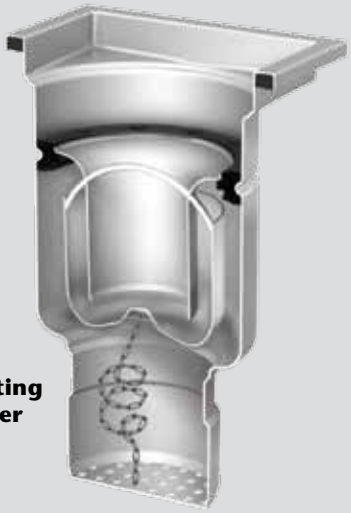
Component security

To ensure components are not misplaced during routine maintenance and cleaning, secure retention cables are available in a number of configurations. See pages 11 and 13 for all available options.





Retention chain connecting fixed (secondary) strainer to removable (primary) strainer.

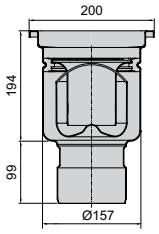


Retention chain connecting fixed (secondary) strainer to internal foul air trap.

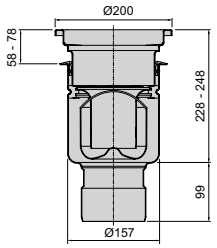
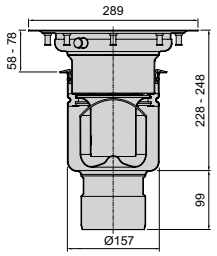
Retention chain connecting fixed (secondary) strainer to removable (primary) strainer and internal foul air trap.

Parts table: ACO Gully 157 – Bodies for 200mm grates

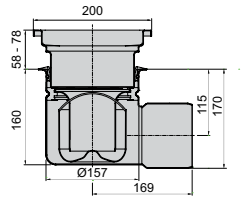
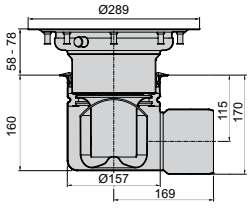
ACO Gully 157 – Fixed height body with vertical outlet (To suit grates on page 11)

	Top Size (type) (mm)	Pipe DN/OD (mm)	Internal foul air trap	Weight (kg)	Stainless steel grade	Part No.
 	200 x 200 (square)	100/110	Without	2.3	304	142039
					316	142040
			With	3.0	304	142041
					316	142042

ACO Gully 157 – Adjustable height body with vertical outlet (To suit grates on page 11)

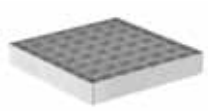
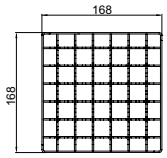
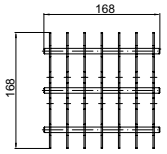
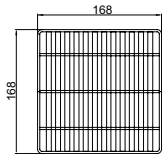
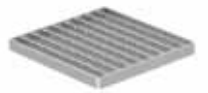
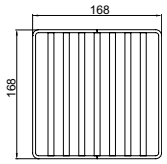
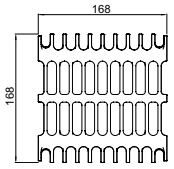
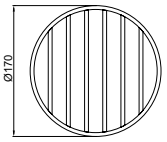
	Top Size (type) (mm)	Pipe DN/OD (mm)	Internal foul air trap	Weight (kg)	Stainless steel grade	Part No.
 	200 x 200 (square)	100/110	Without	2.8	304	141976
					316	141977
			With	3.5	304	141978
					316	141979
 	200 Dia. (round - vinyl)	100/110	Without	3.4	304	141988
					316	141989
			With	4.1	304	141990
					316	141991

ACO Gully 157 – Adjustable height body with horizontal outlet (To suit grate on page 11)

	Top Size (type) (mm)	Pipe DN/OD (mm)	Internal foul air trap	Weight (kg)	Stainless steel grade	Part No.
 	200 x 200 (square)	100/110	Without	3.7	304	141980
					316	141981
			With	4.4	304	141982
					316	141983
 	200 Dia. (round - vinyl)	100/110	Without	4.3	304	141984
					316	141985
			With	5.0	304	141986
					316	141987

Parts table: ACO Gully 157 – Grates and accessories

ACO Gully 157 – Grates

		Grate type	Load Class EN 1253	Surface type	Grate intake (mm²)	Weight (kg)	Stainless steel grade	Part No.
		Mesh	L15	Slip resistant	22,820	0.8	304 316	408090 408190
				Plain			304 316	408091 408191
		Arla	L15	Slip resistant	21,840	0.7	304 316	408023 408123
		5 Star	L15	Slip resistant	13,144	1.1	304	142009
		Ladder	R50[1]	Slip resistant	20,200	1.6	304 316	416912 416913
			M125		18,600	1.9	304 316	408093 408193
			D210[1]	Plain	17,020	2.2	304 316	408043 408143
		Cast	M125	Slip resistant	15,050	2.1	304	416942
		Ladder	M125	Plain	16,000	1.6	304 316	97146 97367

[1] R50 is referenced in prEn 1253, D210 is referenced in AS 3996. (See page 4)

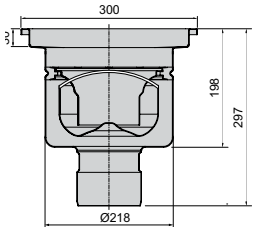
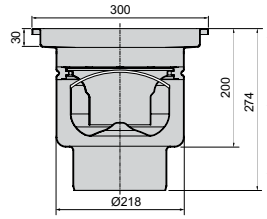
ACO Gully 157 – Accessories

		Weight (kg)	Stainless steel grade	Part No.
Strainers	0.3 litre removable (primary) strainer	0.3	304 316	408203 408213
	1.0 litre removable (primary) strainer	0.6	304 316	413026 413027
	Fixed (secondary) strainer to suit a 110mm outlet	0.1	316	142001
Retention chains	Retention chain connecting fixed (secondary) strainer to FAT[1]	0.1	316	142002
	Retention chain connecting fixed (secondary) strainer to removable (primary) strainer			142003
	Retention chain connecting to FAT[1] to removable (primary) strainer			142004
	Retention chain connecting removable (primary) strainer to grate			142005
	Retention chain connecting removable FAT[1] to grate			142006
Other[2]	P-Trap – 110mm diameter	1.3	316	98876
	Straight coupling – 110mm diameter, 84mm length	0.4	316	98974
	Waterproof bonding flange (adjustable height gullies only)[3]	1.9	304 316	408206 408216

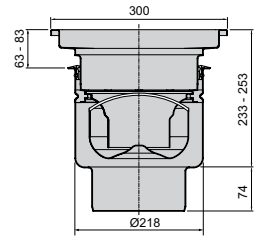
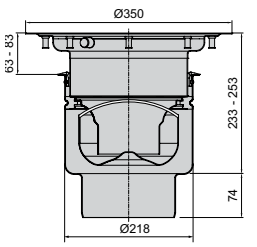
[1] FAT denotes – internal foul air trap. [2] Rodding eye (See page 14). [3] From 100mm up to 180mm will be added to gully depth. (See page 19 for illustration).

Parts table: ACO Gully 218 – Bodies for 300mm grates

ACO Gully 218 - Fixed height body with vertical outlet (To suit grates on page 13)

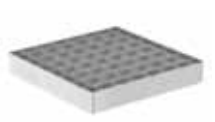
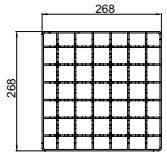
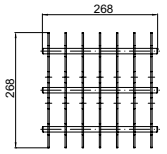
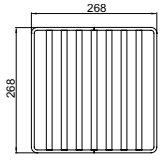
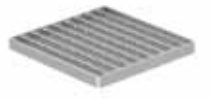
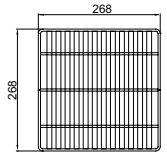
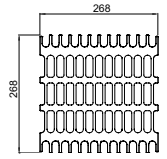
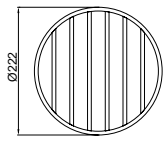
		Top Size (type) (mm)	Pipe DN/OD (mm)	Internal foul air trap	Weight (kg)	Stainless steel grade	Part No.
		300 x 300 (square)	100/110	Without	3.5	304	142043
						316	142044
				With	4.5	304	142045
						316	142046
		300 x 300 (square)	150/160	Without	3.4	304	142047
						316	142048
				With	4.4	304	142049
						316	142050

ACO Gully 218 - Adjustable height body with vertical outlet (To suit grates on page 13)

		Top Size (type) (mm)	Pipe DN/OD (mm)	Internal foul air trap	Weight (kg)	Stainless steel grade	Part No.
		300 x 300 (square)	150/160	Without	4.8	304	141992
						316	141993
				With	5.8	304	141994
						316	141995
		300 Dia. (round–vinyl)	150/160	Without	4.8	304	141996
						316	141997
				With	5.8	304	141998
						316	141999

Parts table: ACO Gully 218 – Grates and accessories

ACO Gully 218 – Grates

		Grate type	Load Class EN 1253	Surface type	Grate Intake (mm²)	Weight (kg)	Stainless steel grade	Part No.
		Mesh	L15	Slip resistant	59,000	2.1	304 316	408034 408134
				Plain			304 316	408035 408135
		Arla	L15	Slip resistant	57,350	1.8	304 316	408041 408141
		5 Star	L15	Slip resistant	36,060	4.1	304	142010
		Ladder	R50[1]	Slip resistant	56,720	3.5	304 316	416916 416917
			M125	Slip resistant	53,640	4.3	304 316	408037 408137
			D210[1]	Plain	45,880	6.2	304 316	408045 408145
		Cast	M125	Slip resistant	39,300	5.6	304	416944
		Ladder	M125	Plain	28,010	2.4	304 316	97148 97388

[1] R50 is referenced in prEn 1253, D210 is referenced in AS 3996. (See page 4)

ACO Gully 218 – Accessories

		Weight (kg)	Stainless steel grade	Part No.
Strainers	0.7 litre removable (primary) strainer	0.6	304 316	408223 408233
	2.0 litre removable (primary) strainer	0.9	304 316	413028 413029
	Fixed (secondary) strainer to suit a 110mm outlet	0.1	316	142001
	Fixed (secondary) strainer to suit a 160mm outlet			142008
Retention chains	Retention chain connecting fixed (secondary) strainer to FAT[1]	0.1	316	142002
	Retention chain connecting fixed (secondary) strainer to removable (primary) strainer			142003
	Retention chain connecting FAT[1] to removable (primary) strainer			142004
	Retention chain connecting removable (primary) strainer to grate			142005
	Retention chain connecting removable FAT[1] to grate			142006
Other[2]	P-Trap – 110mm diameter	1.3	316	98876
	P-Trap – 160mm diameter			98878
	Straight coupling – 110mm diameter, 84mm length	0.4	316	98974
	Straight coupling – 160mm diameter, 84mm length	0.8		98976
	Waterproof bonding flange (adjustable height gullies only)[3]	2.5	304 316	408226 408236

[1] FAT denotes – internal foul air trap. [2] Rodding eye (See page 14). [3] From 100mm up to 180mm will be added to gully depth. (See page 19 for illustration).

Cleaning and maintenance

Inspection and rodding

A rodding eye is an access point in a drainage system that is used to inspect and rod blocked drainage pipes. This is useful when pipes are located in areas where usual inspection and rodding are not possible, for example with a fixed (secondary) strainer.

Cleaning methods

Stainless steel and nitrile rubber are easy to clean. Washing with soap or a mild detergent and warm water, followed by a clean water rinse is usually adequate for most industrial applications. An enhanced aesthetic appearance will be achieved if the cleaned surface is finally wiped dry.

Acids should only be used for on-site cleaning when all other methods have been proved unsatisfactory. Rubber gloves should be used and care taken to ensure acid cleaners are not spilt over adjacent areas.

Special precautions are necessary with oxalic acid and solvents should not be used in closed spaces without adequate ventilation. Manufacturer's directions should always be followed.

If the suggestions in the table below have been attempted and the result is still unsatisfactory, stainless steel is able to be mechanically cleaned by specialists on site. Please contact ACO for further information.

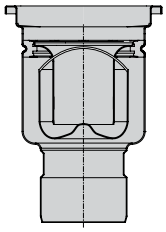
Rodding eye

Pipe DN/OD (mm)	Weight (kg)	Stainless steel grade	Part No.
100/110	1.5	316	416998

Problem	Cleaning agent	Comment
Routine cleaning, all finishes.	Soap or mild detergent and water (such as dishwashing liquid).	Sponge, rinse with clean water, wipe dry if necessary.
Fingerprints, all finishes.	Soap or warm water or organic solvent (e.g. acetone, alcohol).	Rinse with clean water, wipe dry if necessary.
Stubborn stains and discolouration.	Mild cleaning solutions or cream cleanser.	Rinse well with clean water and wipe dry.
Oil and grease marks, all finishes.	Organic solvents (e.g. acetone, alcohol).	Clean after soap and water, rinse with cleanwater and dry.
Rust and other corrosion products.	Oxalic acid.	Rinse well with clean water. The cleaning solution should be applied with a swab and allowed to stand for 15–20 minutes before being washed away with water. Use a mild cleaning solution to give a final clean if required.
Scratches on brush (satin) finish.	Household synthetic fibre scouring pads.	Do not use ordinary steel wool, as particles can become embedded in stainless steel and cause surface problems. For deeper scratches; apply scourer in direction of polishing. Clean with soap or detergent as per routine cleaning.

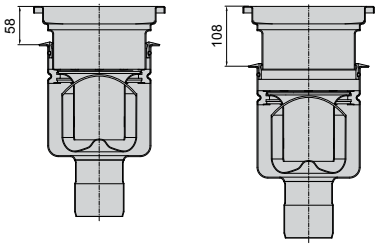
Hydraulics flow rates

ACO Gully 157 – fixed height



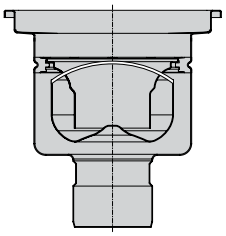
Flow rate [L/s]		[1]With internal FAT	[2]Without internal FAT
DN 100	Vertical	3.5	12.0

ACO Gully 157 – adjustable height



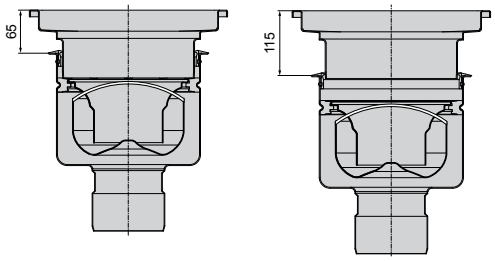
Flow rate [L/s]		[1]With internal FAT (min)	With internal FAT (max)	[2]Without internal FAT
DN 100	Horizontal	2.8	3.3	10.2
	Vertical	3.5	4.0	12.6

ACO Gully 218 – fixed height



Flow rate [L/s]		[1]With internal FAT	[2]Without internal FAT
DN 100	Vertical	4.6	12.1
DN 150	Vertical	4.6	25.8

ACO Gully 218 – adjustable height



Flow rate [L/s]		[1]With internal FAT (min)	With internal FAT (max)	[2]Without internal FAT
DN 150	Vertical	5.0	5.5	27.1

[1] Based on tests carried out to EN 1253.

[2] Based on theoretical calculation with a 20mm head of water above grate.

Note: Fixed and removable strainers will reduce flow rates.
FAT denotes internal foul air trap.

Stainless steel resistance table

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.

✓	Recommended
?	Suitable, contact ACO for further advice
X	Not recommended
~	No data available

Reagent	Stainless Steel 304	Stainless Steel 316
Acetic Acid 20%	✓	✓
Acetic Acid 80%	✓	✓
Acetone	✓	✓
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	✓	✓
Aniline	✓	✓
Barium Chloride	✓	✓
Barium Hydroxide 10%	~	~
Barium Sulphate	✓	✓
Barium Sulphide	~	~
Beer	✓	✓
Beet Sugar Liquors	✓	✓
Benzene	✓	✓
Benzoic Acid	✓	✓
Bleach -12.5%Active C1	~	~
Boric Acid	✓	✓
Bromic Acid	?	?
Bromine Water	X	X
Butane	✓	✓
Calcium Carbonate	✓	✓
Calcium Chloride	X	?
Calcium Hydroxide	?	✓
Calcium Hypochlorite	X	?
Calcium Sulphate	✓	✓
Cane Sugar Liquors	~	~
Carbon Acid	~	~
Carbon Bisulphide	✓	✓
Carbon Dioxide	✓	✓
Carbon Monoxide	✓	✓

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

Reagent	Stainless Steel 304	Stainless Steel 316
Hydrobromic Acid (20%)	X	X
Hydrochloric Acid (40%)	X	X
Hydrocyanic Acid	✓	✓
Hydrogen Peroxide (90%)	✓	✓
Hydroquinone	~	~
Hypochlorous Acid	~	~
Iodine	X	?
Kerosene	✓	✓
Lactic Acid 25%	✓	✓
Linseed Oil	✓	✓
Liqueurs	~	~
Magnesium Chloride	?	?
Magnesium Sulphate	✓	✓
Maleic Acid	?	?
Methyl Chloride	?	?
Methyl Ethyl Ketone	~	~
Milk	✓	✓
Minerals Oils	~	~
Muriatic Acid	X	X
Nickel Chloride	?	?
Nickel Sulphate	✓	✓
Oils and Fats	✓	✓
Oleic Acid	✓	✓
Oleum	~	~
Oxalic Acid	?	?
Palmitic Acid 10%	~	~
Perchloric Acid 10%	X	X
Perchloric Acid 70%	X	X
Petroleum Oils (Sour)	✓	✓
Phenol 5%	✓	✓
Phosphorous Trichloride	✓	✓
Photographic Solutions	?	?
Picric Acid	✓	✓
Plating Solutions	~	~
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
Sea Water	X	?
Sewage	?	?
Silver Nitrate	✓	✓
Silver Sulphate	✓	✓
Sodium Bicarbonate	✓	✓
Sodium Bisulphite	✓	✓
Sodium Carbonate	✓	✓
Sodium Cyanide	✓	✓
Sodium Ferrocyanide	~	~
Sodium Hydroxide	✓	✓
Sodium Hypochlorite	?	✓
Sodium Sulphate	✓	✓
Sodium Sulphide	?	✓
Sodium Sulphite	?	✓
Sodium Thiosulphate	✓	✓
Stannous Chloride	?	?
Stearic Acid	✓	✓
Sulphite Liquor	~	~
Sulphurous Acid	?	?
Sulphur	?	✓
Sulphur Dioxide (Dry)	?	✓
Sulphur Dioxide (Wet)	?	✓
Sulphuric Acid 50%	X	X
Sulphuric Acid 70%	X	X
Sulphuric Acid 93%	X	X
Tannic Acid	✓	✓
Tanning Liquors	✓	✓
Tartaric Acid	~	~
Toluene	~	~
Trichloroethylene	✓	✓
Triethanolamine	~	~
Trisodium Phosphate	~	~
Turpentine	✓	✓
Urea	✓	✓
Urine	✓	✓
Vinegar	✓	✓
Water (Fresh)	✓	✓
Water (Mine)	✓	✓
Water (Salt)	?	?
Whisky	✓	✓
Wines	✓	✓
Xylene	~	~
Zinc Chloride	X	X
Zinc Sulphate	?	✓

Installation guide

Adjustable height gully in ground slab with resin floor finish connecting into stainless pipe and P-Trap.

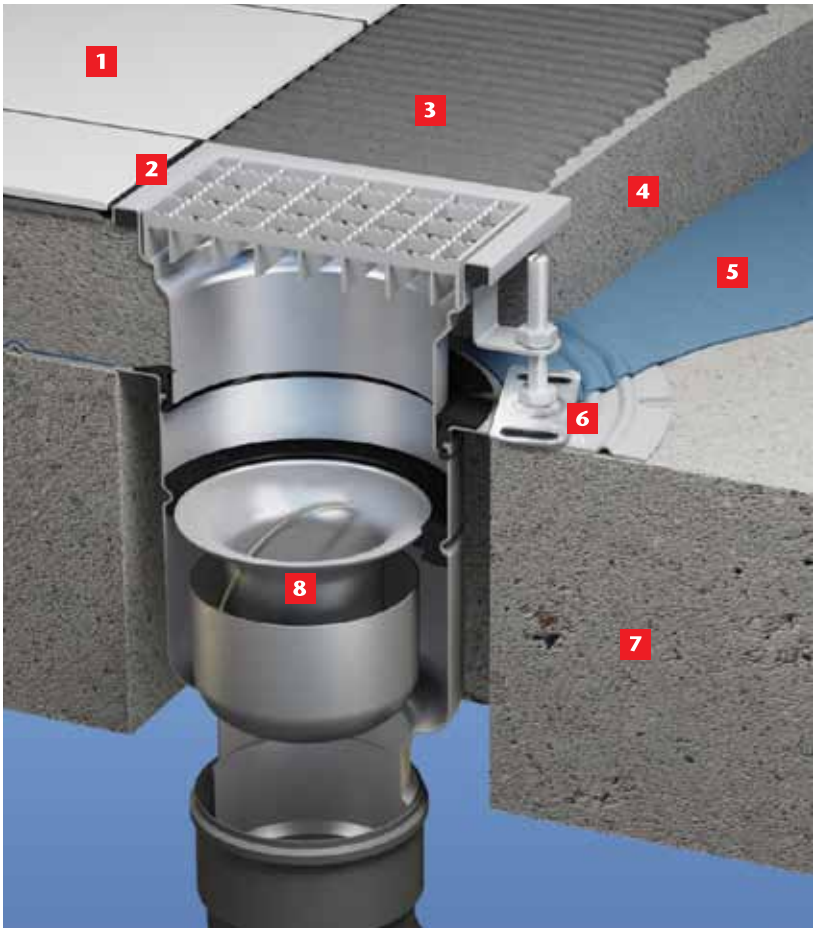
1. Resin topping
2. Flexible sealant
3. Socketed pipe (by ACO)
4. P-Trap (by ACO)
5. Straight coupling (by ACO)
6. Soil
7. Ground slab

Adjustable height gully in ground slab with vinyl sheet floor finish connecting into stainless P-Trap and plastic pipe.

1. Vinyl sheeting
2. Screed
3. Flexible coupling
4. HDPE/PVC Pipe
5. P-Trap (by ACO)
6. Straight coupling (by ACO)
7. Soil
8. Ground slab

Adjustable height gully with internal FAT in suspended slab with a tile floor finish connecting into stainless pipe.

1. Tile
2. Flexible sealant
3. Cement/tile adhesive
4. Screed
5. Waterproof membrane (liquid)
6. Waterproofing Bonding Flange
7. Suspended concrete slab
8. Internal FAT



Fixed height gully with horizontal outlet with internal FAT in ground slab with a tile floor finish connecting into stainless pipe.

1. Tile
2. Flexible sealant
3. Cement/tile adhesive
4. Screed
5. Waterproof membrane
6. Socketed pipe (by ACO)
7. Ground slab
8. Compacted soil
9. Internal FAT

ACO Building Drainage Products

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  Cast floor and roof drains
- **ACO Stainless**
  Industrial stainless steel linear drainage systems
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- **ACO Gully**
  Stainless steel floor gullies
- **ACO Pipe**
  Stainless steel push-fit waste pipes
- **ACO BuildLine**
  Drainage for thresholds, balconies and green roofs
- **QuARTz by ACO**
  Bathroom linear drains and floor wastes
- **ACO Passavant**
  Grease separators

Contact ACO for information relating to ACO's Surface Water Management and Utility Enclosure Solutions.

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