



ACO Product catalogue

ACO tray channel



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General introduction

Introduction

Applications for ACO tray channel include:

- Professional kitchens
- Food processing factories
- Brewing, bottling and canning plants
- Chilled warehouses
- Laboratories
- Chemical and pharmaceutical industries

ACO tray channels are used in applications anywhere where hygienic, corrosion resistance and durable performance are essential.



Why stainless steel?

Stainless steel has the following unique advantages:

- Highly corrosion resistant
- Non-porous, easy to clean and disinfect
- Aesthetically pleasing
- Resistant to temperature extremes and thermal shock
- Coefficient of linear expansion similar to concrete
- 100% recyclable material

All ACO tray channels are manufactured from austenitic stainless steel grades 1.4301 (304) or 1.4404 (316L) to EN 10088.

EN 10088	AISI
1.4301	304
1.4404	316L

Table 1

Why ACO tray channels?

As the largest producer of stainless steel drainage systems ACO has the knowledge, experience and expertise to offer the optimal drainage solutions for every application. Therefore ACO offers the designer the freedom to choose from a standard range of products as well as custom made solutions to suit any application.

Surface treatment of stainless steel

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

Finishes used by ACO include:

- Pickle passivation (acid treatment).
All ACO channels are pickle passivated by immersing them in a series of acid baths. This is a fundamental requirement for removing iron embedded particulates introduced in the fabrication process and also restoring the chromium depleted regions generated by the welding process. ACO has one of the largest and modern pickle passivation installations in Europe which ensures the optimum corrosion resistance of our products.
- Electropolishing (electrochemical process)
After pickle passivation, some products are then immersed in an electrolytic fluid in which the products become the anode of a direct current electrical circuit. This process is characterized by the selective attack on the surface of the components whereby upstanding roughness is preferentially dissolved and will yield a progressively smoother, brighter surface. All tray channel grates are electro-polished as standard.

Hygienic standards

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

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 grating should be considered. From this reason ACO tray channels portfolio includes range of slip resistant grates.

Certification

ACO stainless steel channels are certified and manufactured fully in accordance with EN 1253 (Gullies for Buildings).



Mesh grating – slip resistant

System overview

ACO tray channels are designed to be used in commercial applications where hygiene, durability and performance requirements are paramount. ACO tray channels are available in number of different versions featuring different channel volume, flow rates, size and spigot outlet diameter to suit various applications.

The floor construction and depth together with use of any waterproofing membrane play an important role in selection of the appropriate type of ACO tray channel. ACO offer 4 generic tray channel types as shown in the table below.

- Standard type: concrete floor, tiled floor, resin floor
- Vinyl type: vinyl floor
- Extended type: tiled floor (NO seepage water drainage from waterproofing membrane)
- Telescopic type: tiled floor (seepage water drainage from waterproofing membrane)

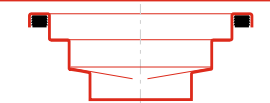

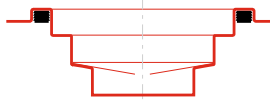

Standard type	
Vinyl type	
Extended type	
Telescopic type	

Table 2



System overview



Benefits

Specifier benefits

- Fully complaint to EN 1253
- Stainless steel construction for durability and long life
- Channel edge infill supplied as standard for hygiene and durability
- Four different channel types covering all typical floor installations concrete, resin, tiles, vinyl
- Easy and secure telescopic connection with gully
- Reliable waterproofing membrane connection options
- High flow rate
- Easy to specify system
- Optimal hygienic solution

Installing contractor benefits

- Fully complaint to EN 1253
- Easy and secure telescopic connection with gully
- Reliable waterproofing membrane connection options
- Friction ring converts easily to membrane seepage drainage
- Height adjustable installation with telescopic edge configuration.
- Installation friendly connection of vinyl floor to the channel provided by vinyl edge
- Channel edge infill for durability and eliminates time-consuming back filling

Client benefits

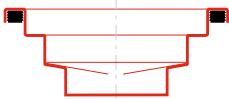

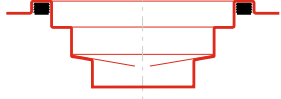
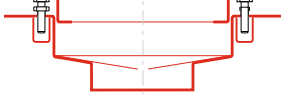
- Fully complaint to EN 1253
- Optimal hygienic solution
- Slip resistant gratings available for added user safety
- Easy and low cost cleaning
- Stainless steel construction for durability and long life
- Optional silt basket
- Channel edge infill for hygiene and durability

ACO tray channel guide

This tray channel guide helps the designer to specify appropriate channel for each particular application by following six simple steps.

Step 1 – tray channel type selection

Using table below, the channel type required will depend on the waterproofing and floor finish details.

Waterproofing	Floor finish	Channel type	Drawing
Waterproofing membrane connected to the gully	Tiled, concrete or resin floor	Standard type	
	Vinyl floor ¹⁾	Vinyl type	
Waterproofing membrane connected to the tray channel	Tiled floor ²⁾	Extended type	
	Tiled floor ³⁾	Telescopic type	

1) Vinyl surface could be considered as water proofed floor and therefore additional membrane connection to the gully is optional.

2) If seepage drainage NOT required.

3) If seepage drainage required.

Table 3

Step 2 – tray channel & gully size selection

Second step of tray channel specification is related with volume of the of channel. Channel volume reflects the maximum amount of water the channel can store at once. Channel volume is determined by channel size (Width × Length × Height).

Table below is the guide to select channel size (requested channel volume). It defines compatible ACO gully size at the same time.

Channel volume [litres]	Width [mm]	Length [mm]	Height [mm]	Channel outlet [mm]	Compatible gully
0-10	6.3	150	800	60	ACO gully EG 150
	7.0	150	900	60	
	7.8	150	1000	60	
	8.6	150	1100	60	
	9.4	150	1200	60	
10.9	150	1400	60	110	
5-20	5.0	300	300	60	ACO gully 157
	5.4	200	500	60	
	8.6	200	800	60	
	8.9	400	400	60	
	9.7	200	900	60	
	9.9	300	600	60	
	10.7	200	1000	60	
	11.8	200	1100	60	
	12.9	200	1200	60	
	13.4	400	600	60	
	13.9	200	1300	60	
	14.1	500	500	60	
	15.0	200	1400	60	
	16.1	200	1500	60	
16.5	300	1000	60		
17.9	400	800	60		
20-40	21.5	200	2000	60	ACO gully 157
	22.5	500	800	60	
	24.8	300	1500	60	
	28.1	500	1000	60	
	33.1	300	2000	60	

	Channel volume [litres]	Width [mm]	Length [mm]	Height [mm]	Channel outlet [mm]	Compatible gully
5-20	4.7	300	300	60	200	ACO gully 218
	8.6	400	400	60	200	
	9.9	300	600	60	200	
	13.4	400	600	60	200	
	13.6	500	500	60	200	
	14.1	400	400	100	200	
	16.5	300	1000	60	200	
	17.9	400	800	60	200	
19.8	600	600	60	200	20-40	
20.8	400	400	150	200		
22.3	400	600	100	200		
22.5	500	800	60	200		
22.6	500	500	100	200		
24.8	300	1500	60	200		
27.4	400	400	200	200		
28.1	500	1000	60	200		
30.5	600	900	60	200		
33.0	300	2000	60	200		
33.3	400	600	150	200		
35.7	800	800	60	200		
40.7	600	1200	60	200		
44.1	400	600	200	200		
60-100	49.6	300	3000	60	200	
	56.2	500	800	150	200	
	70.3	500	1000	150	200	
	74.1	300	4000	80	200	
	76.6	600	900	150	200	
	101.9	600	900	200	200	

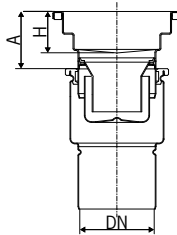
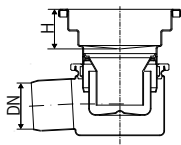
Table 4

Step 3 – tray channel flow rate

Third step of tray channel specification is related with flow rate. Flow rate reflects the channel ability to constantly drain certain amount of water. Flow rate is generally defined by ACO gully size which was specified in Step 2. Tray channel range is available with two different gully sizes:

- ACO gully EG 150
- ACO gully 157
- ACO gully 218

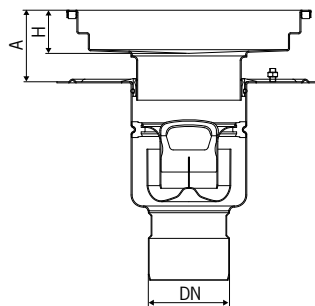
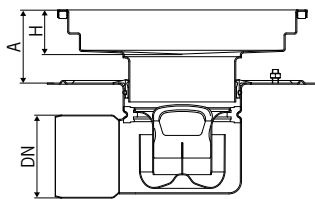
ACO gully EG150



ACO gully EG150		Flowrates [l/s]	
Gully outlet		H=60 mm	
		A min.	A max.
Horizontal	DN 70	1.3	1.5
	DN 100	1.3	1.5
Vertical	DN 70	1.3	1.5
	DN 100	1.3	1.5

Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated) Table 5

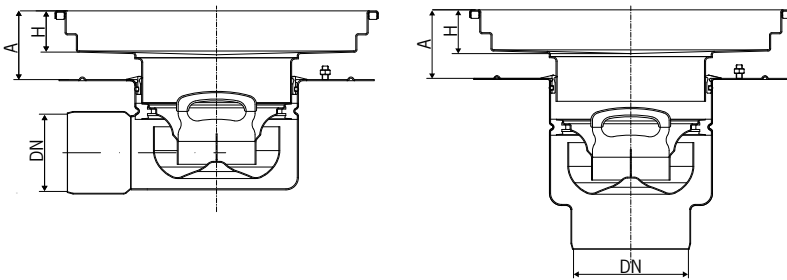
ACO gully 157



ACO gully EG157		Flowrates [l/s]	
Gully outlet		H=60 mm	
		A min.	A max.
Horizontal	DN 70	2,8	3,1
	DN 100	3,2	3,9
Vertical	DN 70	2,9	3,1
	DN 100	3,9	4,2

Flow rates measured according to EN 1253. Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated) Table 6

ACO gully 218



ACO gully 218		Flowrates [l/s]									
Gully outlet		H=60 mm		H=80 mm		H=100 mm		H=150 mm		H=200 mm	
		A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.
Horizontal	DN 100	4.5	4.7	4.8	4.9	4.9	5.1	5.0	5.6	5.6	6.4
	DN 150	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4
Vertical	DN 100	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4
	DN 150	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4

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

Table 6

Step 4 – gully type selection

Fourth step of tray channel specification is focusing on gully type selection.

There are two core gully functions.

- Gully provides connection between channel body and foul drainage system. Each channel size has its own ACO gully defined in Step 3.
- Gully works as the odour trap and filtration unit. Odour from foul drainage system is prevented by a fully removable Foul Air Trap (FAT). Filtration of solid parts is provided by fully removable Silt Basket. FAT and Silt basket specification follows in Step 5.

Tray channel gullies offer three basic variations of telescopic connections between the tray channel and gully itself.

- Telescopic connection with location flange
- Telescopic connection with adhesive bonding flange for water proofing
- Telescopic connection with mechanical clamping flange for water proofing

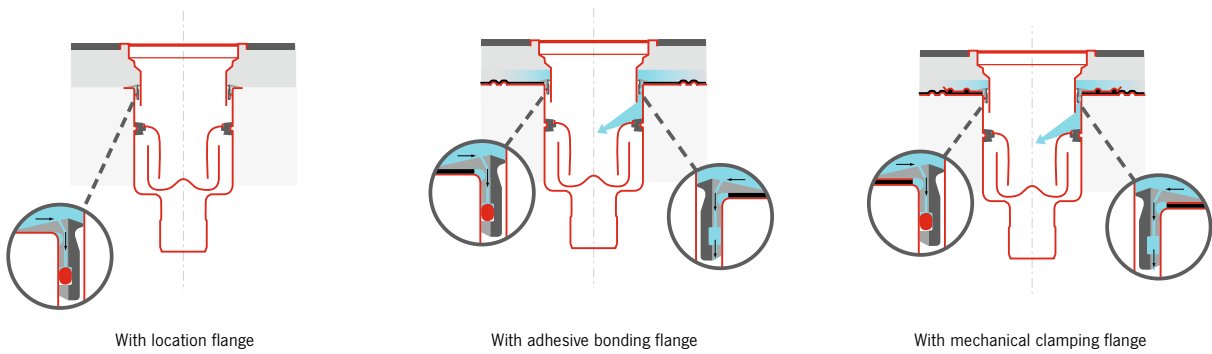


Table below is the guide to pick up correct gully type.

Telescopic connection WITHOUT flange for water proofing		Telescopic connection WITH flange for water proofing	
ACO gully EG 150	ACO gully 157 ACO gully 218 location flange	ACO gully 157 ACO gully 218 bonding flange	ACO gully 157 ACO gully 218 mechanical clamping flange
■ NO water proofing connection to the gully	■ NO water proofing connection to the gully	■ Waterproofing welded or glued to the gully	■ Waterproofing mechanically clamped to the gully

Table 7

Step 5 – gully accessories selection

Fifth step of tray channel specification is related with gully accessories selection.

Following accessories are available:

- **Foul air trap (FAT)** – blocks the odour coming from foul drainage system
- **Foul air trap support** – locates the FAT inside the gully body. Foul air trap support is mandatory if FAT used.
- **Silt basket** – filtration of solid parts
- **Sieve** – filtration of solid parts (shallow version)
- **Friction ring** – provides telescopic connection between tray channel and gully body. Friction ring installation set is mandatory if bonding flange or double clamping flange used.

Table below displays available accessories for different gully body sizes.





Telescopic connection without flange for water proofing		Telescopic connection with flange for water proofing	
ACO gully EG 150	ACO gully 157 ACO gully 218 location flange	ACO gully 157 ACO gully 218 adhesive bonding flange	ACO gully 157 ACO gully 218 mechanical clamping flange
			
Accessories delivered as standard with the gully			
	<ul style="list-style-type: none"> ■ Friction ring ■ FAT ■ FAT support 	<ul style="list-style-type: none"> ■ Friction ring ■ FAT ■ FAT support 	<ul style="list-style-type: none"> ■ Friction ring ■ FAT ■ FAT support
Optional accessories			
<ul style="list-style-type: none"> ■ Sieve ■ FAT with silt basket ■ FAT 	<ul style="list-style-type: none"> ■ Silt basket 0.6 l for ACO gully 157 ■ Silt basket 0.3 l for ACO gully 157 ■ Silt basket 1.4 l for ACO gully 218 ■ Silt basket 0.7 l for ACO gully 218 	<ul style="list-style-type: none"> ■ Silt basket 0.6 l for ACO gully 157 ■ Silt basket 0.3 l for ACO gully 157 ■ Silt basket 1.4 l for ACO gully 218 ■ Silt basket 0.7 l for ACO gully 218 	<ul style="list-style-type: none"> ■ Silt basket 0.6 l for ACO gully 157 ■ Silt basket 0.3 l for ACO gully 157 ■ Silt basket 1.4 l for ACO gully 218 ■ Silt basket 0.7 l for ACO gully 218

Table 8

Step 6 – tray channel accessories selection

Final step of tray channel specification is related with grating selection.

Tray channel range offers mesh grating with either plain or slip resistant finish. Grates are designed for Load Class – L 15. Grating size is based on channel body size. Please see page no. 13 and 17.

- **Plain grating:** to be used in areas with reduced demand for slip resistance for example where trolleys are turning.
- **Slip resistant grating:** to be used in all areas where there is an increased risk of accident caused by slipping.



Plain grating



Slip resistant grating

Family range

ACO tray channel with ACO gully EG 150

- Fully compliant to EN 1253
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Channel outlet spigot OD 110 mm
- Low construction height (from 162 mm)
- Four different channel types covering all typical floor installations (concrete, resin, tiles, vinyl)
- Gully body with telescopic seal to ensure secure connection between channel and gully

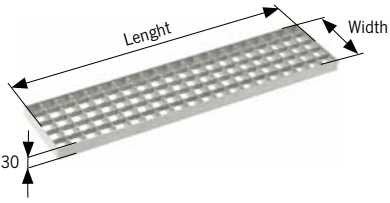
Channel dimensions			Standard		Vinyl		Extended		Telescopic	
A ¹⁾ [mm]	B ²⁾ [mm]	H [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404
150	800	60	409300	409500	409302	409502	409301	409501	409303	409503
150	900	60	409304	409504	409306	409506	409305	409505	409307	409507
150	1000	60	409308	409508	409310	409510	409309	409509	409311	409511
150	1100	60	409312	409512	409314	409514	409313	409513	409315	409515
150	1200	60	409316	409516	409318	409518	409317	409517	409319	409519
150	1400	60	409320	409520	409322	409522	409321	409521	409323	409523

1) Values represent internal dimensions. External dimensions = A+30 mm

2) Values represent internal dimensions. External dimensions = B+30 mm

Table 9

ACO tray channel – mesh gratings



Channel dimensions					Grating dimensions		Slip resistant		Plain		Qty to fill channel
A [mm]	B [mm]	H [mm]	Bar [mm]	Load class	Width [mm]	Lenght [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	
150	800	60	30×2	L15	148	398	414100	414150	414101	414151	2
150	900	60	30×2	L15	148	448	414102	414152	414103	414153	2
150	1000	60	30×2	L15	148	498	414104	414154	414105	414155	2
150	1100	60	30×2	L15	148	398	414100	414150	414101	414151	2
					148	298	414106	414156	414107	414157	1
150	1200	60	30×2	L15	148	398	414100	414150	414101	414151	3
150	1400	60	30×2	L15	148	498	414104	414154	414105	414155	2
					148	398	414100	414150	414101	414151	1

Table 10

ACO tray channel – accessories and spares

ACO gully EG 150 – telescopic – vertical outlet					
Picture	Drawing	Flange type	DN/OD	Material	Part Nr.
		Location flange	70/75 mm	1.4301	405066
				1.4404	402663
		Location flange	100/110 mm	1.4301	408805
				1.4404	405312

Table 11

ACO gully EG 150 – telescopic – horizontal outlet					
Picture	Drawing	Flange type	DN/OD	Material	Part Nr.
		Location flange	70/75 mm	1.4301	406677
				1.4404	405311

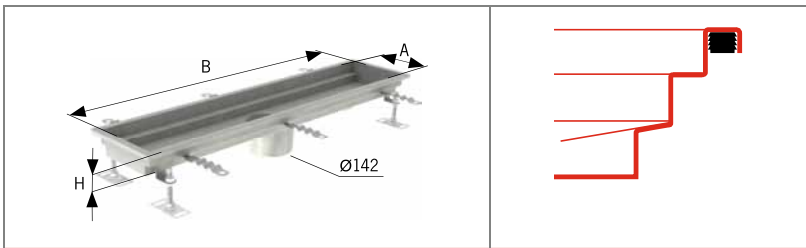
Table 12

ACO gully EG 150 – accessories and spares					
Picture	Drawing	Name	Material	Part Nr.	
		Sieve	1.4301	97235	
			1.4404	97285	
		FAT + silt basket	1.4301	405065	
			1.4404	403633	
		Foul air trap	1.4301	97217	
			1.4404	97267	

Table 13

ACO tray channel with ACO gully 157

- Fully compliant to EN 1253
- High flow rate up to 4.2 l/s
- Channel outlet spigot OD 142 mm
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Dry sump design of gully ensures no standing waste water in gully base
- Optional high volume silt basket 0.3 litre (horizontal outlet) or 0.6 litre (vertical outlet)
- Gully body with location flange or integrated membrane flange for either adhesive boxing or mechanical clamp



Channel dimensions			Standard	
A [mm]	B [mm]	H [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404
200	500	60	414431	414452
200	800	60	414432	414453
200	900	60	414433	414454
200	1000	60	414434	414455
200	1100	60	414435	414456
200	1200	60	414436	414457
200	1300	60	414437	414458
200	1400	60	414438	414459
200	1500	60	414439	414460
200	2000	60	414440	414461
300	300	60	414441	414462
300	600	60	414442	414463
300	1000	60	414443	414464
300	1500	60	414444	414465
300	2000	60	414445	414466
400	400	60	414446	414467
400	600	60	414447	414468
400	800	60	414448	414469
500	500	60	414449	414470
500	800	60	414450	414471
500	1000	60	414451	414472

1) Values represent internal dimensions. External dimensions = A+30 mm

2) Values represent internal dimensions. External dimensions = B+30 mm

Table 14

ACO tray channel – mesh gratings



Channel dimensions					Grating dimensions		Slip resistant		Plain		Qty to fill channel
A [mm]	B [mm]	H [mm]	Bar [mm]	Load class	Width [mm]	Lenght [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	
200	500	60	30x2	L15	198	498	92200	92250	92207	92257	1
200	800	60	30x2	L15	198	398	414473	414474	414475	414476	2
200	900	60	30x2	L15	198	448	414477	414478	414479	414480	2
200	1000	60	30x2	L15	198	498	92200	92250	92207	92257	2
200	1100	60	30x2	L15	198	398	414473	414474	414475	414476	2
					198	298	414481	414482	414483	414484	1
200	1200	60	30x2	L15	198	3x398	414473	414474	414475	414476	3
200	1300	60	30x2	L15	198	498	92200	92250	92207	92257	2
					200	298	414481	414482	414483	414484	1
200	1400	60	30x2	L15	198	498	92200	92250	92207	92257	2
					200	398	414473	414474	414475	414476	1
200	1500	60	30x2	L15	198	498	92200	92250	92207	92257	3
200	2000	60	30x2	L15	198	498	92200	92250	92207	92257	4
300	300	60	30x2	L15	298	298	414108	414158	414109	414159	1
300	600	60	30x2	L15	298	598	414110	414160	414111	414161	1
300	1000	60	30x2	L15	298	498	414112	414162	414113	414163	2
300	1500	60	30x2	L15	298	498	414112	414162	414113	414163	3
300	2000	60	30x2	L15	298	498	414112	414162	414113	414163	4
400	400	60	30x2	L15	398	398	414114	414164	414115	414165	1
400	600	60	30x2	L15	398	598	414116	414166	414117	414167	1
400	800	60	30x2	L15	398	398	414114	414164	414115	414165	2
500	500	60	30x2	L15	498	498	414118	414168	414119	414169	1
500	800	60	30x2	L15	498	798	414120	414170	414121	414171	1
500	1000	60	30x2	L15	498	498	414118	414168	414119	414169	2

Table 15

ACO tray channel – accessories and spares


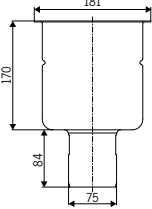

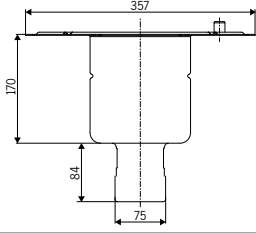

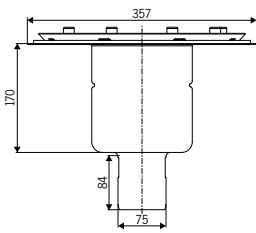

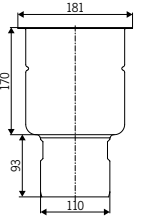

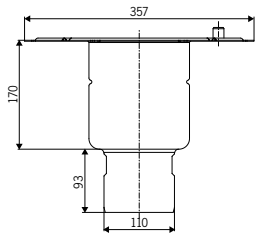

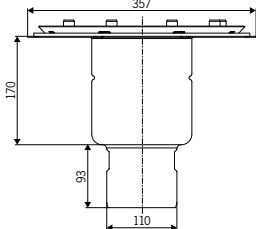
ACO gully 157 – telescopic – vertical outlet						
Picture	Drawing	Flange type	DN/OD	FAT	Material	Part Nr.
		Location flange	70/75 mm	Without FAT	1.4301	408048
					1.4404	408148
				With FAT	1.4301	408049
					1.4404	408149
		Adhesive bonding flange	70/75 mm	Without FAT	1.4301	408050
					1.4404	408150
				With FAT	1.4301	408051
					1.4404	408151
		Mechanical clamping flange	70/75 mm	Without FAT	1.4301	408052
					1.4404	408152
				With FAT	1.4301	408053
					1.4404	408153
		Location flange	100/110 mm	Without FAT	1.4301	408054
					1.4404	408154
				With FAT	1.4301	408055
					1.4404	408155
		Adhesive bonding flange	100/110 mm	Without FAT	1.4301	408056
					1.4404	408156
				With FAT	1.4301	408057
					1.4404	408157
		Mechanical clamping flange	100/110 mm	Without FAT	1.4301	408058
					1.4404	408158
				With FAT	1.4301	408059
					1.4404	408159

Table 16

ACO gully 157 – telescopic – horizontal outlet						
Picture	Drawing	Flange type	DN/OD	FAT	Material	Part Nr.
		Location flange	70/75 mm	Without FAT	1.4301	408072
					1.4404	408172
				With FAT	1.4301	408073
					1.4404	408173
		Adhesive bonding flange	70/75 mm	Without FAT	1.4301	408074
					1.4404	408174
				With FAT	1.4301	408075
					1.4404	408175
		Mechanical clamping flange	70/75 mm	Without FAT	1.4301	408076
					1.4404	408176
				With FAT	1.4301	408077
					1.4404	408177
		Location flange	100/110 mm	Without FAT	1.4301	408078
					1.4404	408178
				With FAT	1.4301	408079
					1.4404	408179
		Adhesive bonding flange	100/110 mm	Without FAT	1.4301	408080
					1.4404	408180
				With FAT	1.4301	408081
					1.4404	408181
		Mechanical clamping flange	100/110 mm	Without FAT	1.4301	408082
					1.4404	408182
				With FAT	1.4301	408083
					1.4404	408183

Table 17


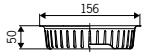

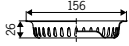

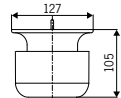

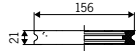

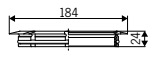
ACO gully 157 – telescopic – accessories and spares				
Picture	Drawing	Name	Material	Part Nr.
		Vertical outlet gully silt basket 0.6 litre capacity	1.4301	408202
			1.4404	408212
		Horizontal outlet gully silt basket 0.3 litre capacity	1.4301	408203
			1.4404	408213
		Foul air trap	1.4301	408200
			1.4404	408210
		Foul air trap support	Nitrile	408201
		Friction ring installation set	Nitrile	408205

Table 18

ACO tray channel with ACO gully 218

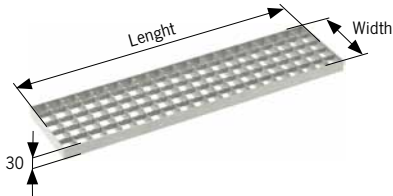
- Fully compliant to EN 1253
- High flow rate up to 6.7 l/s
- Four different channel types covering all typical floor installations (concrete, resin, tiles, vinyl)
- Channel outlet spigot OD 200 mm
- Available in 1.4301 (304) or 1.4404 (316L) grades of stainless steel
- Dry sump design of gully ensures no standing waste water in gully base
- Optional high volume silt basket 0.7 litre (horizontal outlet) or 1.4 litre (vertical outlet)
- Gully body with location flange or integrated membrane flange for either adhesive bonding or mechanical clamp

Channel dimensions			Standard		Vinyl		Extended		Telescopic	
A ¹⁾ [mm]	B ²⁾ [mm]	H [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404
300	300	60	409324	409524	409326	409526	409325	409525	409327	409527
300	600	60	409328	409528	409330	409530	409329	409529	409331	409531
300	1000	60	409332	409532	409334	409534	409333	409533	409335	409535
300	1500	60	409336	409536	409338	409538	409337	409537	409339	409539
300	2000	60	409340	409540	409342	409542	409341	409541	409343	409543
300	3000	60	409344	409544	409346	409546	409345	409545	409347	409547
300	4000	80	409348	409548	409350	409550	409349	409549	409351	409551
400	400	60	409352	409552	409354	409554	409353	409553	409355	409555
400	400	100	409356	409556	409358	409558	409357	409557	409359	409559
400	400	150	409360	409560	409362	409562	409361	409561	409363	409563
400	400	200	409364	409564	409366	409566	409365	409565	409367	409567
400	600	60	409368	409568	409370	409570	409369	409569	409371	409571
400	600	100	409372	409572	409374	409574	409373	409573	409375	409575
400	600	150	409376	409576	409378	409578	409377	409577	409379	409579
400	600	200	409380	409580	409382	409582	409381	409581	409383	409583
400	800	60	409384	409584	409386	409586	409385	409585	409387	409587
500	500	60	409388	409588	409390	409590	409389	409589	409391	409591
500	500	100	409392	409592	409394	409594	409393	409593	409395	409595
500	800	60	409396	409596	409398	409598	409397	409597	409399	409599
500	800	150	409400	409600	409402	409602	409401	409601	409403	409603
500	1000	60	409404	409604	409406	409606	409405	409605	409407	409607
500	1000	150	409408	409608	409410	409610	409409	409609	409411	409611
600	600	60	409412	409612	409414	409614	409413	409613	409415	409615
600	900	60	409416	409616	409418	409618	409417	409617	409419	409619
600	900	150	409420	409620	409422	409622	409421	409621	409423	409623
600	900	200	409424	409624	409426	409626	409425	409625	409427	409627
600	1200	60	409428	409628	409430	409630	409429	409629	409431	409631
800	800	60	409432	409632	409434	409634	409433	409633	409435	409635

1) Values represent internal dimensions. External dimensions = A+30 mm

2) Values represent internal dimensions. External dimensions = B+30 mm

ACO tray channel – mesh gratings



Channel dimensions					Grating dimensions		Slip resistant		Plain		Qty to fill channel
A [mm]	B [mm]	H [mm]	Bar [mm]	Load class	Width [mm]	Lenght [mm]	Art.Nr. 1.4301	Art.Nr. 1.4404	Art.Nr. 1.4301	Art.Nr. 1.4404	
300	300	60	30×2	L15	298	298	414108	414158	414109	414159	1
300	600	60	30×2	L15	298	598	414110	414160	414111	414161	1
300	1000	60	30×2	L15	298	498	414112	414162	414113	414163	2
300	1500	60	30×2	L15	298	498	414112	414162	414113	414163	3
300	2000	60	30×2	L15	298	498	414112	414162	414113	414163	4
300	3000	60	30×2	L15	298	498	414112	414162	414113	414163	6
300	4000	60	30×2	L15	298	498	414112	414162	414113	414163	8
400	400	60	30×2	L15	398	398	414114	414164	414115	414165	1
400	400	100	30×2	L15	398	398	414114	414164	414115	414165	1
400	400	150	30×2	L15	398	398	414114	414164	414115	414165	1
400	400	200	30×2	L15	398	398	414114	414164	414115	414165	1
400	600	60	30×2	L15	398	598	414116	414166	414117	414167	1
400	600	100	30×2	L15	398	598	414116	414166	414117	414167	1
400	600	150	30×2	L15	398	598	414116	414166	414117	414167	1
400	600	200	30×2	L15	398	598	414116	414166	414117	414167	1
400	800	60	30×2	L15	398	398	414114	414164	414115	414165	2
500	500	60	30×2	L15	498	498	414118	414168	414119	414169	1
500	500	100	30×2	L15	498	498	414118	414168	414119	414169	1
500	800	60	30×2	L15	498	798	414120	414170	414121	414171	1
500	800	150	30×2	L15	498	798	414120	414170	414121	414171	1
500	1000	60	30×2	L15	498	498	414118	414168	414119	414169	2
500	1000	150	30×2	L15	498	498	414118	414168	414119	414169	2
600	600	60	30×2	L15	598	598	414122	414172	414123	414173	1
600	900	60	30×2	L15	598	448	414124	414174	414125	414175	2
600	900	150	30×2	L15	598	448	414124	414174	414125	414175	2
600	900	200	30×2	L15	598	448	414124	414174	414125	414175	2
600	1200	60	30×2	L15	598	398	414126	414176	414127	414177	3
800	800	60	30×3	L15	798	398	414128	414178	414129	414179	2

Table 20

ACO tray channel – accessories and spares

ACO gully 218 – telescopic – vertical outlet						
Picture	Drawing	Flange type	DN/OD	FAT	Material	Part Nr.
		Location flange	100/110 mm	With FAT	1.4301	408061
					1.4404	408161
		Adhesive bonding flange	100/110 mm	With FAT	1.4301	408063
					1.4404	408163
		Mechanical clamping flange	100/110 mm	With FAT	1.4301	408065
					1.4404	408165
		Location flange	150/160 mm	With FAT	1.4301	408067
					1.4404	408167
		Adhesive bonding flange	150/160 mm	With FAT	1.4301	408069
					1.4404	408169
		Mechanical clamping flange	150/160 mm	With FAT	1.4301	408071
					1.4404	408171

Table 21


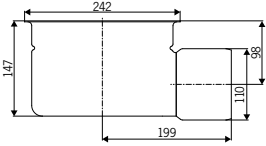

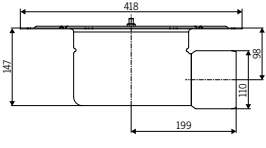

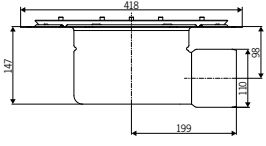
ACO gully 218 – telescopic – horizontal outlet						
Picture	Drawing	Flange type	DN/OD	FAT	Material	Part Nr.
		Location flange	100/110 mm	With FAT	1.4301	408085
					1.4404	408185
		Adhesive bonding flange	100/110 mm	With FAT	1.4301	408087
					1.4404	408187
		Mechanical clamping flange	100/110 mm	With FAT	1.4301	408089
					1.4404	408189

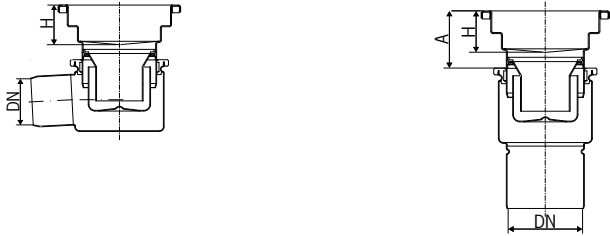
Table 22

ACO gully 218 – accessories and spares				
Picture	Drawing	Name	Material	Part Nr.
		Vertical outlet gully silt basket 1.4 litre capacity	1.4301	408222
			1.4404	408232
		Horizontal outlet gully silt basket 0.7 litre capacity	1.4301	408223
			1.4404	408233
		Foul air trap	1.4301	408220
			1.4404	408230
		Foul air trap support	Nitrile	408221
		Friction ring installation set	Nitrile	408225
		ACO tray channel lubricant		NM6373

Table 23

Flow-rates

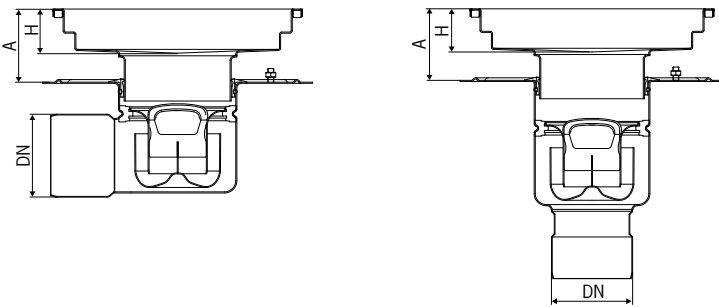
ACO gully EG150



ACO gully EG150		Flowrates [l/s]	
Gully outlet		H=60 mm	
		A min.	A max.
Horizontal	DN 70	1.3	1.5
	DN 100	1.3	1.5
Vertical	DN 70	1.3	1.5
	DN 100	1.3	1.5

Flow rates measured according to EN 1253.
 Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)
 Table 24

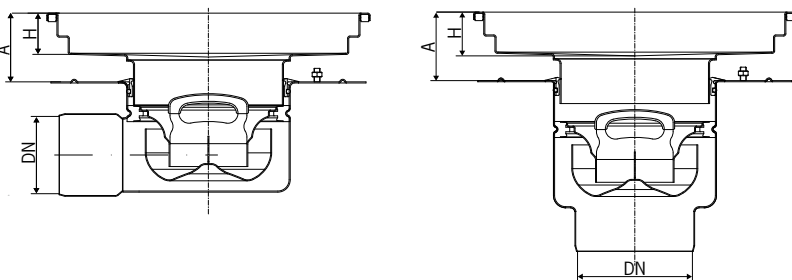
ACO gully 157



ACO gully EG157		Flowrates [l/s]	
Gully outlet		H=60 mm	
		A min.	A max.
Horizontal	DN 70	2,8	3,1
	DN 100	3,2	3,9
Vertical	DN 70	2,9	3,1
	DN 100	3,9	4,2

Flow rates measured according to EN 1253.
 Flow rate performance without silt basket (flow rates with empty silt basket are approximately 15% lower than the values stated)
 Table 25

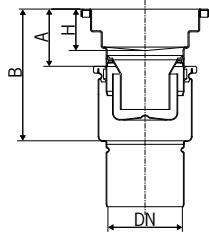
ACO gully 218



ACO gully 218		Flowrates [l/s]									
Gully outlet		H=60 mm		H=80 mm		H=100 mm		H=150 mm		H=200 mm	
		A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.	A min.	A max.
Horizontal	DN 100	4.5	4.7	4.8	4.9	4.9	5.1	5.0	5.6	5.6	6.4
	DN 150	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4
Vertical	DN 100	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4
	DN 150	5.4	5.6	5.6	5.8	5.7	6.0	5.9	6.4	6.4	6.4

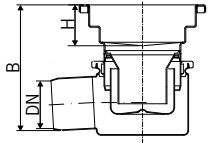
tabulka 26

Construction heights



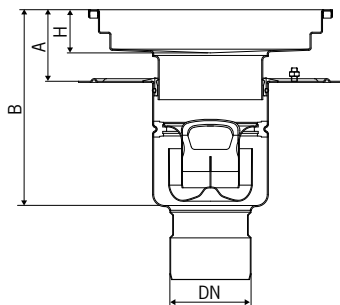
ACO gully EG 150	
vertical outlet	Channel height (H)
DN 70 and DN 100	60 mm
A min. [mm]	60
A max. [mm]	85
B min. [mm]	165
B max. [mm]	190

Table 27



ACO gully EG 150	
horizontal outlet	Channel height (H)
DN 70	60 mm
A min. [mm]	60
A max. [mm]	85
B min. [mm]	165
B max. [mm]	190

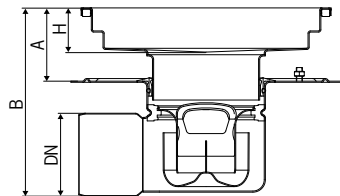
Table 28



ACO gully 157	
vertical outlet	Channel height (H)
DN 70 and DN 100	60 mm
A min. [mm]	75
A max. [mm]	115
B min. [mm]	245
B max. [mm]	285

A min. and B min. values can be reduced by 10mm if earth screw is removed

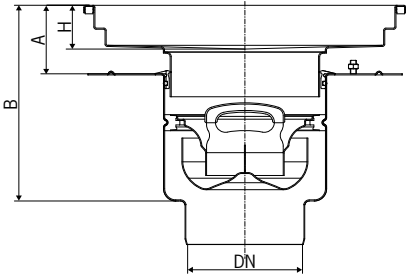
Table 29



ACO gully 157	
horizontal outlet	Channel height (H)
DN 70	60 mm
A min. [mm]	85
A max. [mm]	115
B min. [mm]	232
B max. [mm]	262

A min. and B min. values can be reduced (without FAT) by 10mm if earth screw is removed

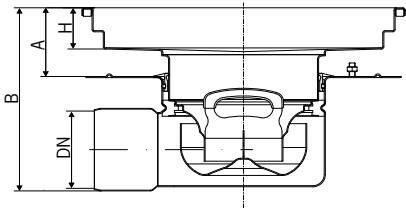
Table 30



ACO gully 218					
vertical outlet	Channel height (H)				
DN 100 and DN 150	60 mm	80 mm	100 mm	150 mm	200 mm
A min. [mm]	75	95	115	165	215
A max. [mm]	115	135	155	205	255
B min. [mm]	245	265	285	335	385
B max. [mm]	285	305	325	375	425

A min. and B min. values can be reduced by 15 mm if earth screw is removed.

Table 31



ACO gully 218					
horizontal outlet	Channel height (H)				
DN 100	60 mm	80 mm	100 mm	150 mm	200 mm
A min. [mm]	85	105	125	175	225
A max. [mm]	115	135	155	205	255
B min. [mm]	235	255	275	325	375
B max. [mm]	265	285	305	355	405

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

Table 32

Cleaning methods

Cleaning methods

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

Conclusion

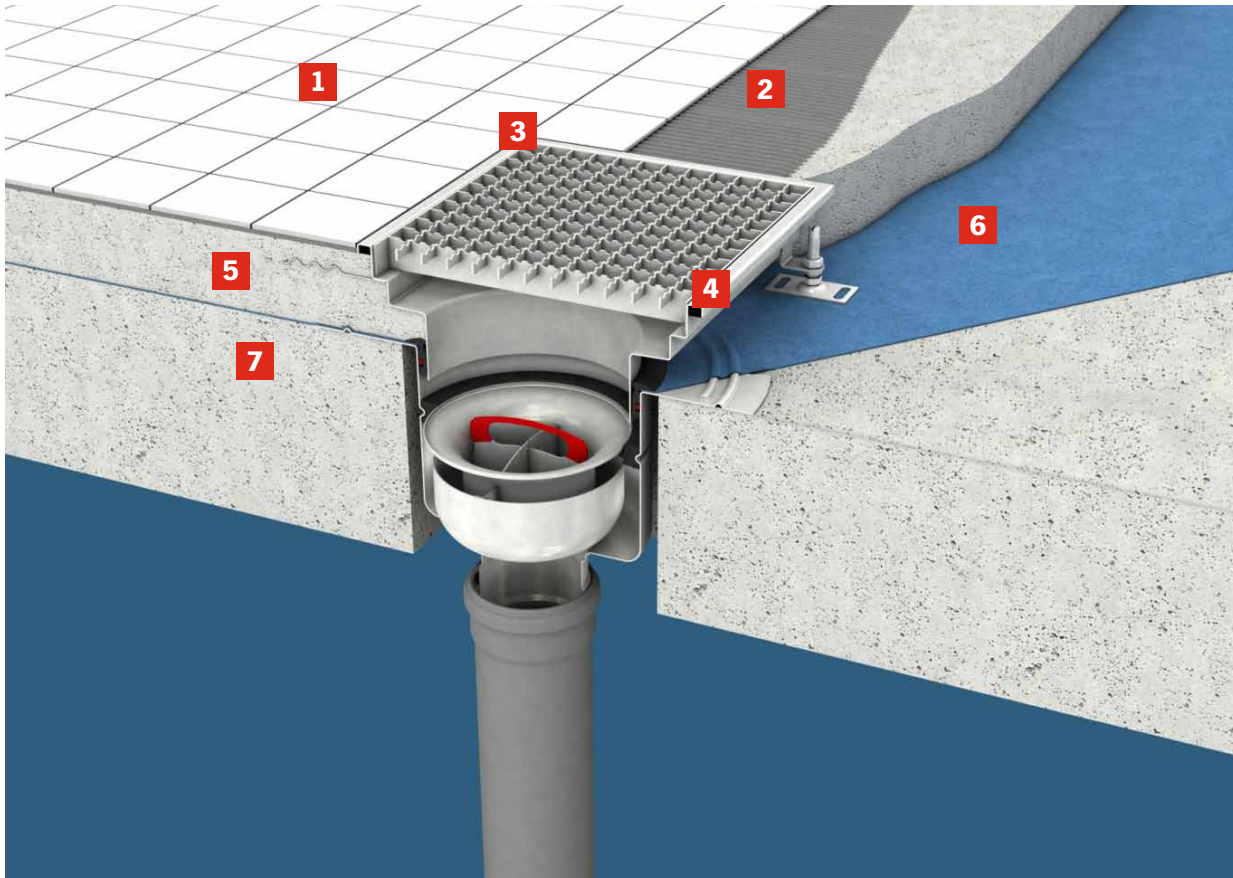
If all the suggestions and actions in the table below have been attempted, stainless steel has the facility to be mechanically cleaned by specialists on site. Please contact ACO Industries for further assistance.

Problem	Cleaning agent	Comment
Routine cleaning, all finishes	Soap or mild detergent and water (such as washing up 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 (e.g. Jif, Goddard Stainless Steel Care)	Rinse well with clean water and wipe dry
Oil and grease marks, all finishes	Organic solvents (e.g. acetone, alcohol, trichlorethylene)	Clean after with soap and water, rinse with clean water and dry
Rust and other corrosion products	Oxalic acid. The cleaning solution should be applied with a swab and allowed to stand for 15–20 minutes before being washed away with water. May continue using Jif to give final clean.	Rinse well with clean water (precautions for acid cleaners should be observed)
Scratches on brush (satin) finish	Household synthetic fibre scouring pads (e.g. Scotch Brite fibre pad). For deeper scratches; apply in direction of polishing. The clean with soap or detergent as per routine cleaning.	Do not use ordinary steel wool (iron particles can become embedded in stainless steel and cause further surface problems)

Table 33

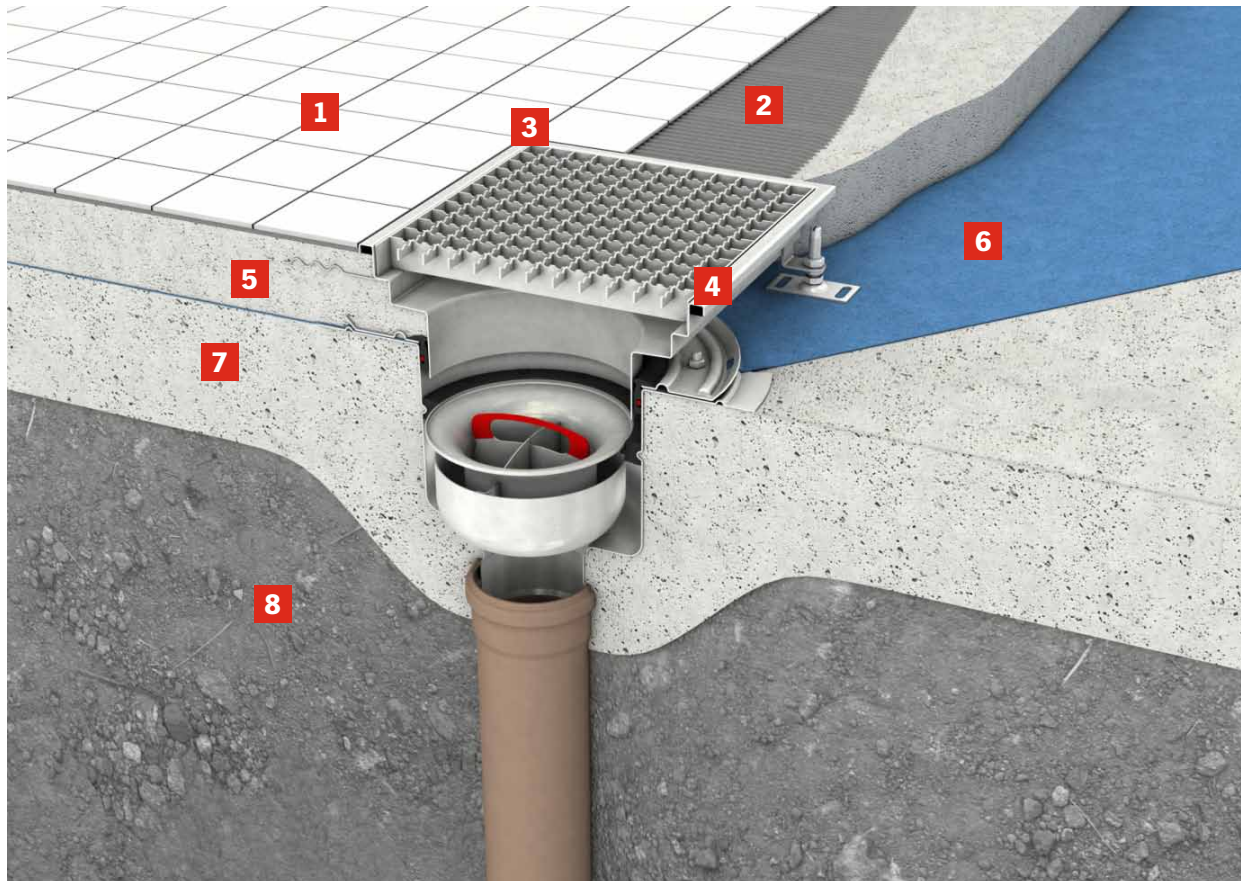
Installation recommendations

ACO tray channel – standard type – gully with adhesive bonding flange
Tiled floor



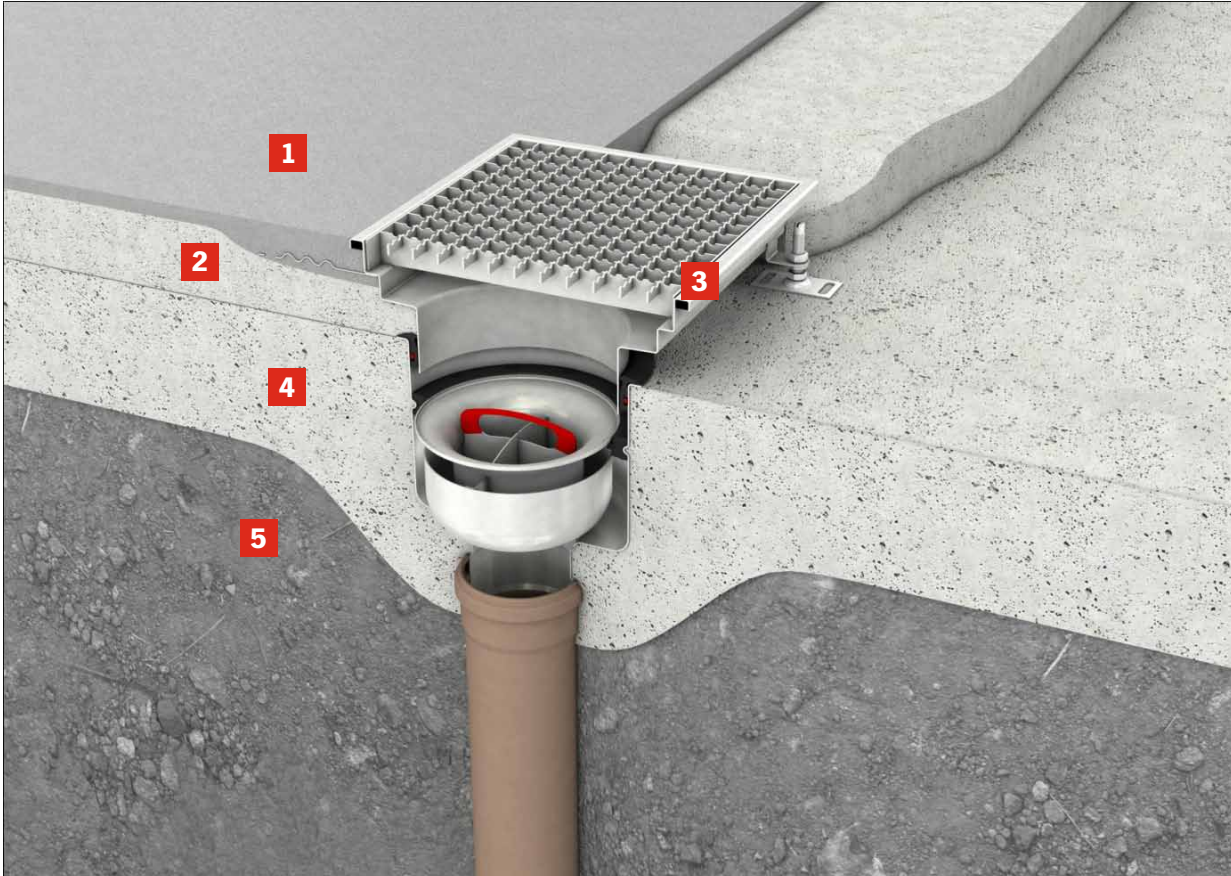
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Floor screed
- 6** Water proof membrane
- 7** Solid concrete floor slab

ACO tray channel – standard type – gully with mechanical clamping flange
Tiled floor



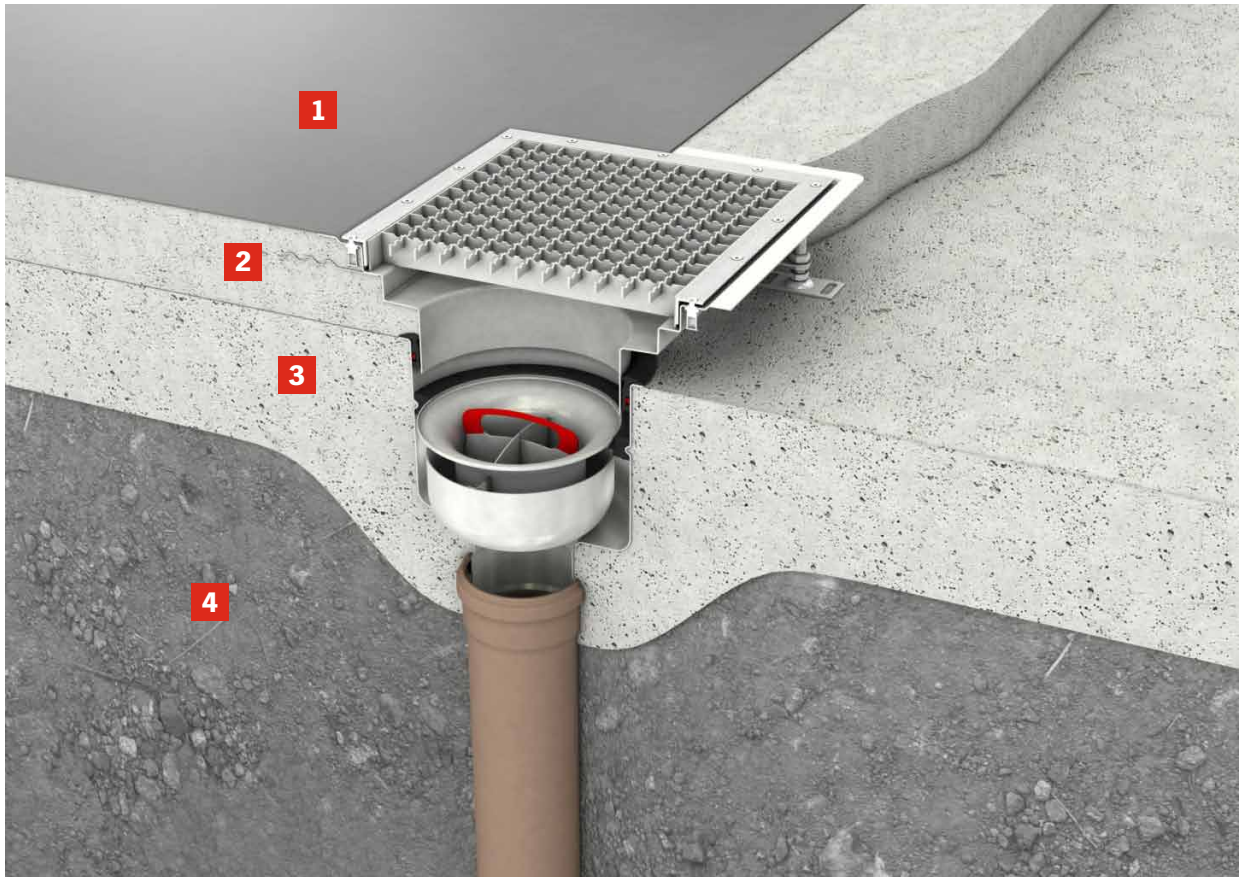
- 1** Ceramic tiles
- 2** Tile cement
- 3** Mastic sealant
- 4** Rubber infill
- 5** Floor screed
- 6** Water proof membrane
- 7** Solid concrete floor slab
- 8** Compacted soil

ACO tray channel – standard type – gully with location flange
Resin floor



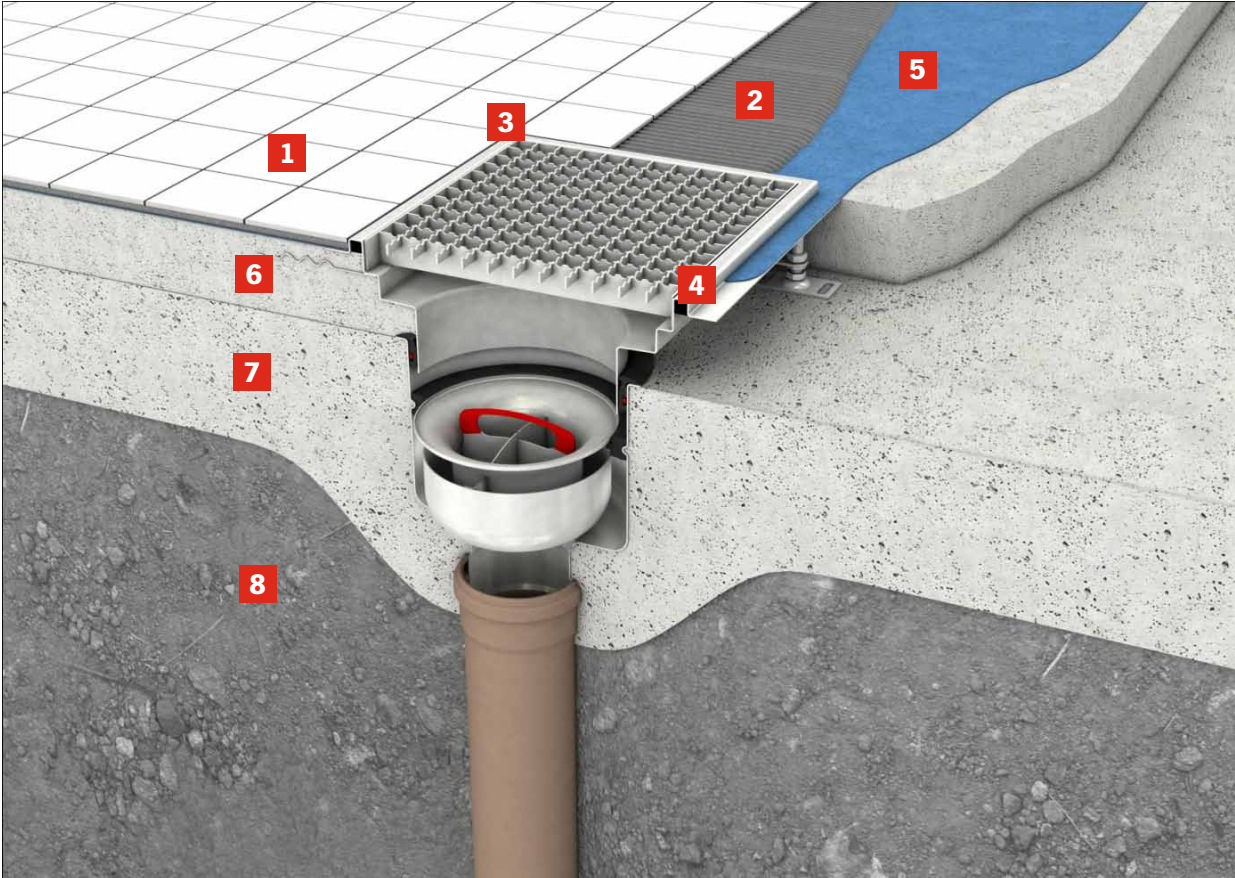
- 1** Epoxy/resin floor
- 2** Floor screed
- 3** Rubber infill
- 4** Solid concrete floor slab
- 5** Compacted soil

ACO tray channel – vinyl type – gully with location flange
Vinyl floor



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

ACO tray channel – extendend type – gully with location flange
Tiled floor



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

ACO tray channel – telescopic type – gully with location flange
Tiled floor



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