

FLOORDRAIN BROCHURE

8" x 8" Square Floor Drain 10" x 10" Square Floor Drain 12" x 12" Square Floor Drain Cleanouts



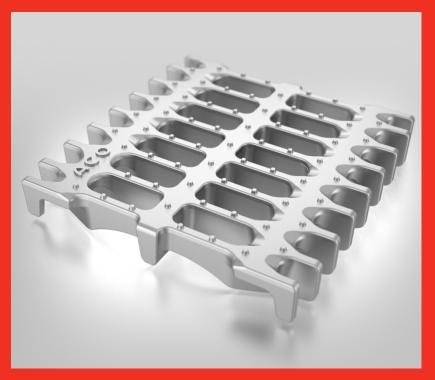
ACO Building Drainage

ACO offers drainage systems designed to protect your business and the environment. The stainless steel floor drainage products in the Building Drainage product line are designed for ultimate hygienic performance, ensuring health & safety of workers, customers and products while still allowing clean-in-place functionality.

Product Portfolio

- Stainless Steel Trench Drain versatile, modular stainless steel drainage
- Floor Drain stainless steel floor drains
- **Hygienic Floor Trough** stainless steel drainage for commercial <u>kitchens or ind</u>ustrial applications
- **Pipe** stainless steel push-fit pipe
- **BuildLine** green roof, perimeter and threshold drainage
- QuARTz ShowerDrain stainless steel bathroom drainage





Floor Drain

The Floor Drain range is available in grade 304 or 316L stainless steel and the variety of options available within the range make it easy to select the best product for any application. ACO's Floor Drains are fully pickle passivated, a finishing process for removing embedded iron particles and restoring the chromium depleted regions from the welding process.

The proper Floor Drain can be selected with the following options:

- Outlet position
- Outlet diameter
- Fixed height or adjustable units
- Location or membrane clamped flange
- Grate options
- Accessories



ACO hygienic drainage fulfills the most stringent hygienic requirements to prevent bacterial contamination.

We apply hygienic design principles reserved for food processing equipment (EHEDG document No 8, 13 and 44) to the floor drain design and NSF/ANSI 3-A 14159-1-2014.

Unlike the majority of single piece floor drains available in the market, ACO FloorDrain is designed with features that comply with all aspects required of ultimate hygienic applications.

Typical applications

- Petrochemical
- Commercial kitchens
- Food processing facilities
- Brewing, bottling and canning plants
- Chilled warehouses
- Laboratories
- Chemical industries
- Pharmaceutical industries
- Restaurants
- Schools
- **■** Hospitals
- Hotels





Industrial applications

For applications where material and loading is most important, such as in chemical or pharmaceutical industries, chilled warehouses or schools, etc., ACO offers standard, semi-custom and full custom drainage solutions to meet these needs.

In industrial applications, main considerations for floor drains are loadings and attachment to surrounding floor material. Correct grate choice is essential to a long working life and ACO can provide independently tested load certificates for all its' grates.

Modular 125, 200 and Slot Drain ranges provide a versatile system with off-the-shelf availability. Accessories such as corner units and choice of grate to meet any load class, make these systems perfect for a wide range of applications. Available in either grade 304 or 316L stainless steel, these systems can be used for longer trench drain runs.

Hygienic applications

For applications where hygiene is of paramount importance, such as a commercial kitchen, food processing facility or hospital, ACO offers stainless drainage solutions to meet these demanding environments.

ACO's goal is to improve every aspect of safety, hygiene and functional performance. In a food processing and commercial kitchen environment, hot water, grease and organic waste must be counteracted by more complex and sophisticated drainage concepts.

Hygiene First

Our HygieneFirst philosophy represents our commitment to delivering products that provide ultimate hygienic performance. We design intelligent drainage solutions that minimize operational costs without compromising food safety. For optimum corrosion resistance, all of ACO's Floor Drains are finished with pickle passivation.



ACO has obtained NSF/ANSI 3A 14159-1-2014 certification for its products from NSF International. This standard refers to the hygienic

requirements in food processing. All of ACO's hygienic floor drains, hygienic floor troughs and hygienic cast and ladder grates for the hygienic floor drains now display the NSF certification mark.

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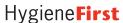
Introduction

ACO Floor Drains are simple, single point square drains that provide drainage with minimal installation.

Floor drains can be stand-alone or integrated into a trench drain system.

Floor Drains are available in AISI 304 or 316L stainless steel with either a vertical or horizontal outlet. A number of versions featuring different grates, sizes and outlet diameters are also available to suit various applications and flow requirements.

All Floor Drains are designed with the highest tier of hygienic friendly features.



Fixed height floor drains are convenient, free-standing units which are suitable for installation in concrete, resin or tiled floors.

They can be specified as point drainage in areas where waterproofing is independent of the floor drain body.

Bodies are available with either horizontal or vertical outlets.

Adjustable floor drains can be installed with either a floor drain top or ACO Trench Drain in most flooring constructions, including floors with waterproofing membranes.

Adjustable solutions enable height and rotational adjustment of connected floor drain top or channel.

Adjustable floor drains are available with location or mechanical membrane clamping flanges. Bodies are available with either horizontal or vertical outlets.



- 1 Grates
- 2 Optional silt basket
- 3 ACO Floor Drain body horizontal outlet
- 4 Floor Drain top
- 5 Friction ring
- 6 ACO EasyFix leveling feet
- ACO Floor Drain body vertical outlet





Grate Selection

To select the appropriate grate, the following properties should be considered:

- Load class
- Slip resistance
- Type/frequency/speed of traffic
- Wheel type
- Position of floor drain
- Hygiene (cleanability)

Best design practice is to minimize traffic across the drain to reduce risk of floor surface/drainage interface failures from dynamic loadings.

The proper load class for the grate is calculated on the defined traffic during all future operations.

All ACO Floor Drain grates have been independently load tested to ASME 112.6.3. Corresponding load class according to EN 1253-1 is also indicated. If correlation to EN 1433 standard is required, please contact ACO for details.

Refer to page 11 for Floor Drain Grates parts tables.



		ASME: A 112.6.3 Load Class safe live load					EN 1253
		Light duty	Medium duty	Heavy duty	Extra Heavy duty	Special duty	
Grate	Size	under 2,000 lbs	2,000 - 4,999 lbs	5,000 - 7,499 lbs	7,500 - 10,000 lbs	exceeding 10,000 lbs	
	8" x 8"	✓	✓	✓	✓	✓	
Cast	10" x 10"	✓	✓	✓	✓	✓	M 125
MSF (HF)	12" x 12"	✓	✓	✓	✓	✓	
	8" x 8"	✓	✓				
Mesh	10" x 10"	✓	✓				L 15
	12" x 12"	✓	✓				
	8" x 8"	✓					
Quadrato	10" x 10"	✓					L 15
	12" x 12"	✓					
	8" x 8"	✓	✓				
Multi-slot 5	10" x 10"	✓	✓				L 15
	12" x 12"	✓	✓				
Heelsafe	8" x 8"	✓	✓				
	10" x 10"	✓	✓				L 15
	12" x 12"	✓					
	8" x 8"	✓	✓	✓	√	✓	
Slot Cover	10" x 10"	√	✓	✓	✓	✓	M 125
	12" x 12"	✓	✓	✓	✓		
		✓					R 50
	8" x 8"	✓	✓	✓			M 125
		✓	√	√	✓	√	N 250
		✓					R 50
Ladder	10" x 10"	√	√	✓			M 125
NSF (HF)		✓	✓	√	✓	√	N 250
		√					R 50
	12" x 12"	√	√				M 125
		√	√	✓	√		N 250
	8" x 8"	√					
Half Ladder	10" x 10"	√ ·					L 15
MSF (HF)	12" x 12"	✓					
	8" x 8"	· ✓					
Half Plate	10" x 10"	· ✓					L 15
HF	12" x 12"	√					

Edge in-fill
Ensures stable and
durable transmission

between the floor

floor and helps to

drain and surrounding

minimize risk of floor

harbor micro organisms.

cracks which could

Fixed height floor drain features

Tixed height 11001 drain reature

Edge in-fill

Ensures stable and durable transmission between the floor drain and surrounding floor and helps to minimize risk of floor cracks which could harbor micro organisms.



Fixed height

Free-standing units are suitable for concrete, resin or tiled floors.

Full drainability

Dry sump design is 100% drainable - eliminating standing water, smells, microbial growth and potential chemical hazards.

Adjustable height floor drain features

Grates

Variety of grates available depending on application and required load class. Grates have been independently load tested to ASME 112.6.3 and EN 1253 tested and Certified by NSF International. Slip resistant solutions available.



Internal radii

All internal radii equal or larger than 1/8 inch (3 mm) which greatly increases cleaning effectiveness.

Friction ring

Provides a sealing or drainage function. Optional waterproofing bonding and membrane flange to accomodate waterproofing membrane (not shown) can be fitted at this position.

Earth point

Where the drain needs connection to grounding either a tab or a bolt is available (on membrane flange).

Adjustable height

Adjusts to suit finished floor level. Available with location flange or integrated membrane flange for mechanical clamp.

- Full drainability

Dry sump design is 100% drainable - eliminating standing water, smells, microbial growth and potential chemical hazards.

Information about Removable Foul Air Trap

Building codes in North America do not encourage the use of removable foul air traps in Floor Drains. Generally a 'P' trap in the pipework directly below the floor drain acts as a foul air trap. However, there may be specific instances where a removable foul air trap is required, such as restricted depth installations, client-specific requirements, marine (ships & boats) and others.

The ACO foul air trap is fully removable and is available as an optional accessory to all floor drains. It is available in grade 304 or 316L stainless steel. The foul air trap prevents foul air from the connected drain and sewer from entering the building. A standard foul air trap support must be ordered with the foul air trap.



Earth point

Optional silt basket

Where the drain needs

membrane flange).

Removable (primary) stainless steel

strainer to prevent food waste from

entering wastewater system.

Hygienic joints

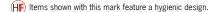
Deep-drawn body ensures smooth contours, eliminating crevices that can harbor dangerous bacteria.

connection to grounding either

a tab or a bolt is available (on



MSF Items shown with the NSF Mark have been tested and Certified by NSF International.





www.ACOBuildingDrainage.com





Slip resistance

Slip resistance is critical for user safety. ACO has tested grate patterns using the widely accepted pendulum test.

A pendulum is swung over a wet surface and the surface frictional properties are measured. Test results are given a BPN value - typically values in excess of 24 would be used. A BPN of 24 and under is regarded as high slip and skid potential.

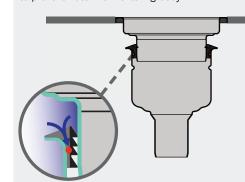
ACO recommends selecting a grate with the similar BPN values as the surrounding pavement finish. Pavement slope, presence of surface contaminants, etc. can also negatively affect slip and skid resistance.

Other tests exist, such as the variable-angle ramp test and horizontal pull test and can be carried out as necessary if required for specific projects.

Refer to the grate parts tables on pages 11 - 13 for slip resistant results.

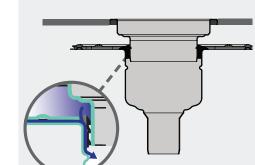
Friction ring

When using adjustable height floor drain with location flange, red sealing 'o' ring must be used to prevent water from entering body.



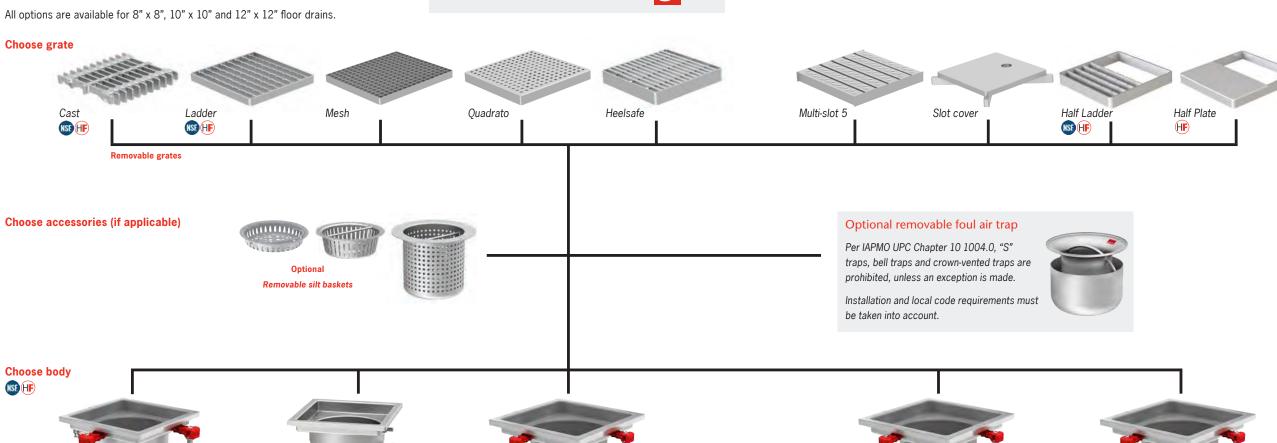
When using adjustable height floor drain with mechanical membrane clamping flange, red sealing 'o' ring must be removed to allow water to enter floor drain body through weep holes on friction ring.













Fixed height, vertical outlet Fixed height, horizontal outlet Adjustable height, vertical outlet location flange Fixed and adjustable height bodies

Adjustable height, horizontal outlet location flange

Adjustable height, vertical outlet membrane clamp

Optional Stainless Steel P-Trap (see ACO Pipe brochure)

Items shown with the NSF Mark have been tested and Certified by NSF International.

(HF) Items shown with this mark feature a hygienic design.

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Choose drain body

Parts Table: Floor Drain bodies and tops



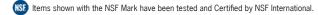








and tops					
Fixed Height,		Top Size	Outlet Ø	Pai	rt#
Vertical Outlet		in (mm)	in (mm) SCH 10	AISI 304	AISI 316L
8" x 8" Floor Drain	NSE (HF)	8 x 8 (200 x 200)	2 (60)	445238	445274
o x o Floor Draili		6 X 6 (200 X 200)	4 (114)	445240	445276
10" x 10" Floor Drain		10 × 10 (250 × 250)	3 (89)	445114	445180
10 x 10 Floor Drain	NSF (HF	10 x 10 (250 x 250)	4 (114)	445116	445182
12" x 12" Floor Drain	NSF (HF)	12 x 12 (300 x 300)	4 (114)	445104	445170
12 X 12 FIOUR Draill		12 X 12 (300 X 300)	6 (168)	445106	445172
Fixed Height,		Top Size	Outlet Ø	Pai	rt#
Horizontal Outlet		in (mm)	in (mm) SCH 10	AISI 304	AISI 316L
8" x 8" Floor Drain	NSF (HF)	8 x 8 (200 x 200)	2 (60)	445242	445278
o x o Floor Draill	Mar (Tr	0 X 0 (200 X 200)	4 (114)	445244	445280
10" x 10" Floor Drain		10 v 10 (250 v 250)	3 (89)	445118	445184
10 X 10 Floor Draill	NSF (HF	10 x 10 (250 x 250)	4 (114)	445120	445186
12" x 12" Floor Drain	NSF (HF)	12 x 12 (300 x 300)	4 (114)	445112	445178
Floor Drain Top fo	r	Top Size		Pai	rt #
Adjustable Height		in (mm)		AISI 304	AISI 316L
8" x 8" Floor Drain	NSF HF	8 x 8 (200 x 2	00)	414732	414832
10" x 10" Floor Drain	NSF (HF)	10 x 10 (250 x	250)	408248	408258
12" x 12" Floor Drain	NSF HF	12 x 12 (300 x	300)	408228	408238
Adjustable Height,		Outlet Ø		Pai	rt #
Vertical Outlet		Flange Type*	in (mm) SCH 10	AISI 304	AISI 316L
		location	2 (60)	445246	445282
8" x 8" Floor Drain	NSF (HF)	mechanical membrane clamp	2 (60)	445250	445286
8 X 8 Floor Drain	Mar (Tr	location	4 (114)	445252	445288
		mechanical membrane clamp	4 (114)	445256	445292
		location	3 (89)	445123	445189
10" 10" Flance Descio	NSF (HF)	mechanical membrane clamp	3 (89)	445127	445193
10" x 10" Floor Drain	MSE (III	location	4 (114)	445129	445195
		mechanical membrane clamp	4 (114)	445133	445199
		location	4 (114)	445135	445201
101 1015 5		mechanical membrane clamp	4 (114)	445139	445205
12" x 12" Floor Drain	NSF (HF	location	6 (168)	445141	445207
		mechanical membrane clamp	6 (168)	445145	445211
Adjustable Height	,		Outlet Ø	Pai	rt#
Horizontal Outlet		Flange Type*	in (mm) SCH 10	AISI 304	AISI 316L
		location	2 (60)	445258	445294
			2 (00)		
01. 01.51. 5 :		mechanical membrane clamp	2 (60)	445262	445298
8" x 8" Floor Drain	NSF (HF)			445262 445264	445298 445300
8" x 8" Floor Drain	NSF (HF)	mechanical membrane clamp	2 (60)		
8" x 8" Floor Drain	NSF (HF)	mechanical membrane clamp location	2 (60) 4 (114)	445264	445300
		mechanical membrane clamp location mechanical membrane clamp	2 (60) 4 (114) 4 (114)	445264 445268	445300 445304
	NSP (HF)	mechanical membrane clamp location mechanical membrane clamp location	2 (60) 4 (114) 4 (114) 3 (89)	445264 445268 445147	445300 445304 445213
		mechanical membrane clamp location mechanical membrane clamp location mechanical membrane clamp	2 (60) 4 (114) 4 (114) 3 (89) 3 (89)	445264 445268 445147 445151	445300 445304 445213 445217
10" x 10" Floor Drain		mechanical membrane clamp location mechanical membrane clamp location mechanical membrane clamp location	2 (60) 4 (114) 4 (114) 3 (89) 3 (89) 4 (114)	445264 445268 445147 445151 445153	445300 445304 445213 445217 445219



⁽HF) Items shown with this mark feature a hygienic design.



2 Choose grate

Parts Table: 8" x 8" Floor Drain Grates

		Load	Class	Slip Resistant	Pa	rt #	
8" x 8" Floor Drain	Grates	ASME: A 112.6.3	EN 1253	ASTM E303-93 (BPN)	AISI 304	AISI 316L	
N. SANGER	Cast (IS) (IF)	Special duty	M 125	48	416942	N/A	
		Light duty	R 50	35	416912	416913	ACO
	Ladder	Medium duty	M 125	35	408093	408193	
	NSF (HF)	Heavy duty	N 250	33	408043	408143	
	Mesh	Medium duty	L 15	57	408090	408190	
	Quadrato	Light duty	L 15	15	408092	408192	
	Heelsafe	Medium duty	L 15	36	408022	408122	
	Multi-slot 5	Medium duty	L 15	31	408094	408194	
	Slot cover	Special duty	M 125	36	408021	408121	
	Half Ladder	Light duty	R 50	35	416918	416919	
	Half Plate	Light duty	R 50	36	416928	416929	

Items shown with the NSF Mark have been tested and Certified by NSF International.

⁽HF) Grates shown with this mark feature a hygienic design.

2 Choose grate

Parts Table: 10" x 10" Floor Drain Grates

		Load	Class	Slip Resistant	Pa	rt #	
10" x 10" Floor Dra	in Grates	ASME: A 112.6.3	EN 1253	ASTM E303-93 (BPN)	AISI 304	AISI 316L	
N. SANGER	Cast	Special duty	M 125	48	416943	N/A	
		Light duty	R 50	35	416914	416915	ACO
	Ladder	Heavy duty	M 125	35	408028	408128	
	NSF (HF)	Special duty	N 250	33	408044	408144	
	Mesh	Medium duty	L 15	57	408095	408195	
	Quadrato	Light duty	L 15	15	408097	408197	
	Heelsafe	Medium duty	L 15	36	408031	408131	
	Multi-slot 5	Medium duty	L 15	31	408033	408133	
	Slot cover	Special duty	M 125	36	408030	408130	
	Half Ladder	Light duty	R 50	35	416920	416921	
	Half Plate	Light duty	R 50	36	416926	416927	

Items shown with the NSF Mark have been tested and Certified by NSF International.

(HF) Grates shown with this mark feature a hygienic design.



2 Choose grate

Parts Table: 12" x 12" Floor Drain Grates

		Load	Class	Slip Resistant	Pa	rt #	
12" x 12" Floor Dra	in Grates	ASME: A 112.6.3	EN 1253	ASTM E303-93 (BPN)	AISI 304	AISI 316L	
	Cast	Special duty	M 125	48	416944	N/A	
		Light duty	R 50	35	416916	416917	ACO
	Ladder	Meidum duty	M 125	35	408037	408137	
	NSF (HF)	Heavy duty	N 250	33	408045	408145	
	Mesh	Medium duty	L 15	57	408034	408134	
	Quadrato	Light duty	L 15	15	408036	408136	
	Heelsafe	Medium duty	L 15	36	408040	408140	
	Multi-slot 5	Medium duty	L 15	31	408042	408142	
	Slot cover	Special duty	M 125	36	408039	408139	
	Half Ladder	Light duty	R 50	35	416922	416923	
	Half Plate	Light duty	R 50	36	416924	416925	

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⁽HF) Grates shown with this mark feature a hygienic design.

3

Choose accessories (if applicable)

Parts Table: Floor Drain Accessories

8" x 8" Floor Drain	Used with	Height	Part	t #
Accessories	osea with	inches	AISI 304	AISI 316L
Shallow silt basket	All floor drains	0.98	416902	416903
Silt basket	All floor drains	1.77	416900	416901
Deep silt basket*	All floor drains	3.94	445232	445233

10" x 10" Floor	Used with	Height	Part #		
Drain Accessories	osea with	inches	AISI 304	AISI 316L	
Shallow silt basket	All floor drains	1.02	416906	416907	
Silt basket	All floor drains	1.97	416904	416905	
Deep silt basket*	All floor drains	5.24	445234	445235	

12" x 12" Floor	Used with	Height	Part #		
Drain Accessories	Osea with	inches	AISI 304	AISI 316L	
Shallow silt basket	All floor drains	1.02	416910	416911	
Silt basket	All floor drains	1.97	416908	416909	
Deep silt basket*	All floor drains	5.31	445236	445237	

*deep silt basket is for use without removable foul air trap.

Accessories are available to prevent drain clogging and promote general cleanliness.

Silt baskets collect debris and are easy to remove and clean.

Shallow silt basket



Silt basket



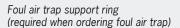
Deep silt basket



Optional Removable Foul Air Trap

Doub	Used with	Part #		
Part	usea with	AISI 304	AISI 316L	
Foul air trap support ring	8" x 8" Floor Drain	(NBR) 414743		
Foul air trap	O XO FIOUR DIAIII	414741	414841	
Foul air trap support ring	10" x 10" Floor Drain	(NBR) 408201		
Foul air trap	10 X 10 Floor Drain	408200	408210	
Foul air trap support ring	10" v 10" Flagy Dygin	(NBR) 40	8221	
Foul air trap	12" x 12" Floor Drain	408220	408230	

Building codes in North America do not encourage the use of removable foul air traps in Floor Drains. However, a removable foul air trap may be required due to restricted depth installations, client-specific requirements, marine (ships & boats) and others.





Foul air trap



Cleaning and maintenance

Cleanout

A cleanout 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.

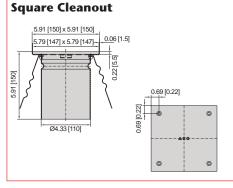


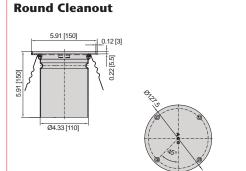
Cleaning methods

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 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 suggestions in table below have been attempted, and result is still unsatisfactory, stainless steel can be mechanically cleaned by specialists on site. Contact ACO for further information.

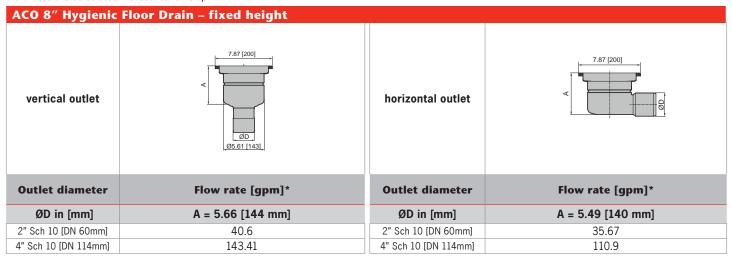


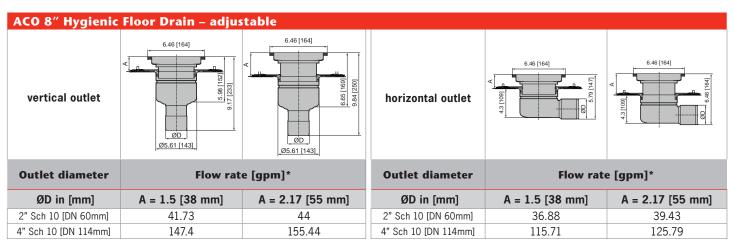
Problem	Cleaning agent	Comment
Routine cleaning, all finishes.	Soap or mild detergent and water (such as dishwashing liquid).	Sponge, rinse with clean water, wipe dry if necessary.
Fingerprints, all finishes.	Soap, warm water or organic solvent (e.g. acetone, alcohol).	Rinse with clean water, wipe dry if necessary.
Stubborn stains and discoloration.	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 with soap and water, rinse with clean water 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 fiber 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.

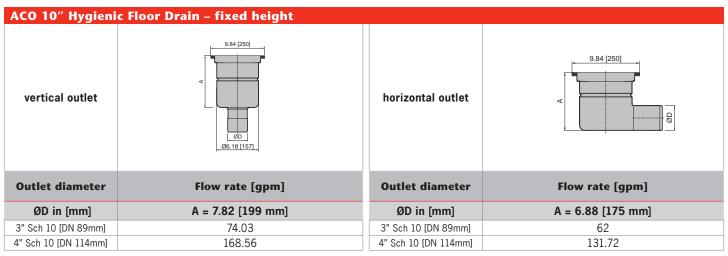
For information on corrosion resistance of stainless steel, please contact ACO.

Flow rates & Installation heights

Flow rates are calculated without foul air trap.





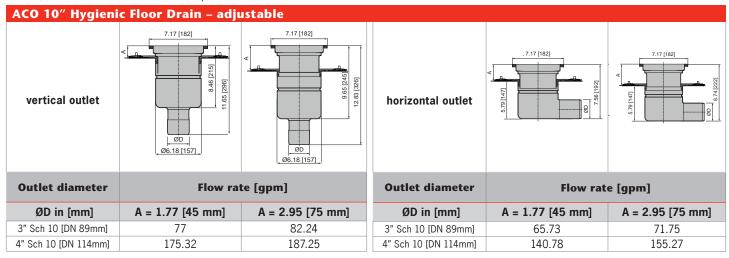


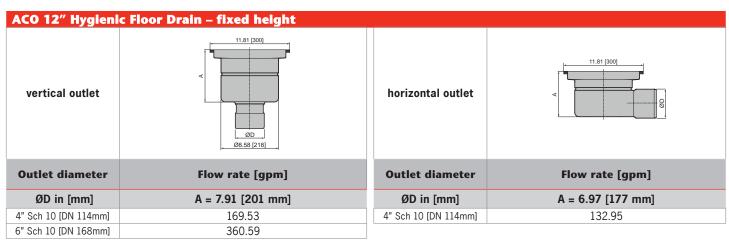
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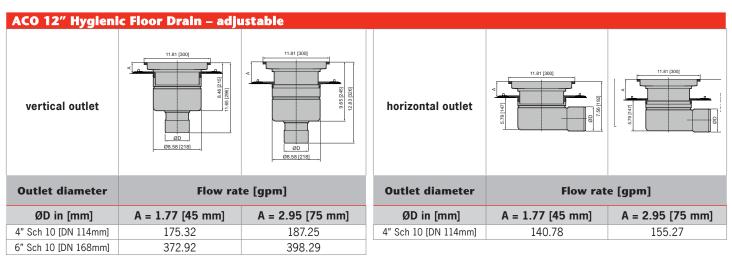
- 1. If foul air trap is added, flow rate through floor drain body is reduced.
- 2. Flow rates are based on drowned orifice calculations. Silt basket and debris/solids will reduce flow rates.

Flow rates & Installation heights

Flow rates are calculated without foul air trap.







Note:

- 1. If foul air trap is added, flow rate through floor drain body is reduced.
- 2. Flow rates are based on drowned orifice calculations. Silt basket and debris/solids will reduce flow rates.

Installation guide

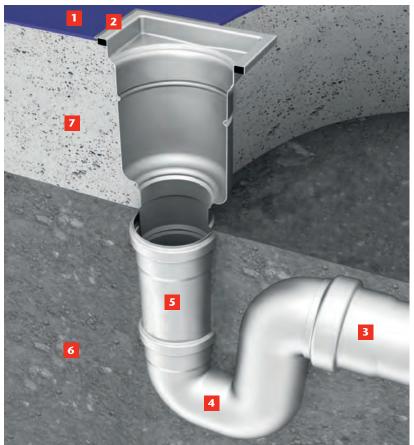
Adjustable height floor drain in ground slab with resin floor finish connecting into stainless pipe and P-Trap.

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



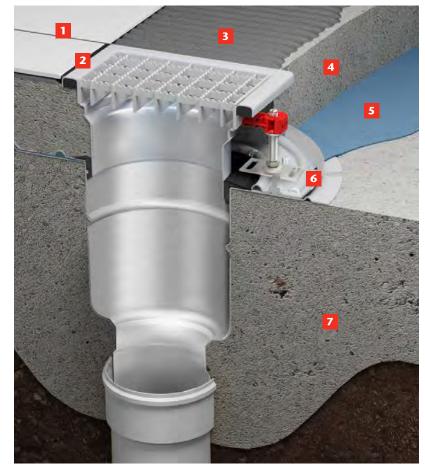
Fixed height floor drain in ground slab with resin floor finish connecting into stainless pipe and P-Trap.

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



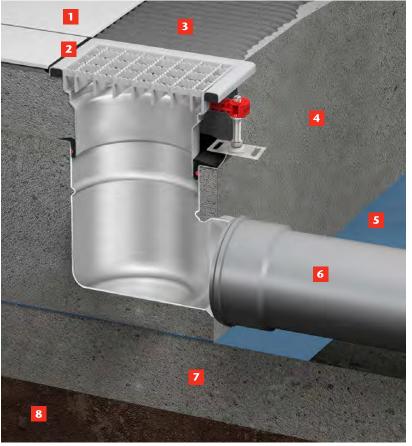
Adjustable height floor drain in suspended slab with a tile floor finish connecting into stainless pipe.

- 1 Tile
- 2 Flexible sealant
- 3 Cement/tile adhesive
- 4 Screed
- 5 Waterproof membrane (liquid/fabric)
- Waterproofing Bonding/Clamp Flange (contact ACO)
- 7 Suspended concrete slab



Adjustable height floor drain with horizontal outlet 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



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