



Product catalogue

ACO ShowerDrain and Wetroom Systems - Technical Information

ACO Building Drainage

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

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

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



ACO Building Drainage is a division of ACO Technologies plc and part of the worldwide ACO Group. The Group has sales in excess of £600 million worldwide with production facilities in the UK, Germany, France, Switzerland, Denmark, Spain, Poland, Czech Republic, Australia and the USA. In total more than 3500 people are employed in 40 countries throughout the world.

Office address and contact details:

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

Tel: +44(0)1462 816666
 Fax: +44(0)1462 851490
 Email: abinfo@aco.co.uk

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

www.acobd.co.uk

ACO Building Drainage

Sales Office / Estimating Team:

Tel: +44(0)1462 816666
 Fax: +44(0)1462 851895
 Email: abdestimating@aco.co.uk

- Product availability, delivery lead times, and all other queries including collections, returns and complaints.

ACO Building Drainage

Enquiries Team:

Tel: +44(0)1462 816666
 Fax: +44(0)1462 851895
 Email: abdcommercial@aco.co.uk

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

ACO Building Drainage

Design Services Team:

Tel: +44(0)1462 816666
 Fax: +44(0)1462 851081
 Email: abdtechnical@aco.co.uk

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

Marketing and Media Support

Tel: +44(0)1462 816666
 Fax: +44(0)1462 851490
 Email: abdmarketing@aco.co.uk

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

Contents

ACO ShowerDrain and Wetroom Systems	
Introduction	4
ACO Shower Channel Systems	
Shower Channel System for Tiled Flooring	6
Gratings Selection for Shower Channel System for Tiled Flooring	7
Shower Channel System for Flexible Sheet Flooring	9
Grating Selection for Shower Channel System for Flexible Sheet Flooring	9
ACO Illumination for ACO Shower Channel Systems	
ACO Lightline	10
ACO ShowerDrain C Channel System	
ShowerDrain C with Horizontal Tanking Flange	12
ACO Wetroom Former	
Wetroom Formers	15
Weber Wetroom Tanking System	16
ACO Walk-in Solution	
Walk-in Solution	17
ACO Shower Gully Systems	
Gully System for Flexible Sheet or Tiled Flooring	18
Vertical Spigot Slab Penetration Gullies	20
Grating Selection for Gully Systems	22
ACO Easyflow Bathroom Gully System	
Easyflow Gullies	24
Grating Selection for Easyflow Gullies	28
ACO Illumination for ACO Easyflow Gully System	
ACO Lightpoint	29
Installation, Operation, Care and Maintenance	
Cleaning Methods	30
ACO Channel Systems	32
ACO Lightline	35
ACO Wetroom Former	36
ACO Walk-in Solution	38
ACO Shower Gully Systems	39
ACO Easyflow	42
ACO Lightpoint	44
Standard Specification Clauses	
Shower Channel, Shower Gully	46
ACO Easyflow Bathroom Gully System	46



Introduction

Sophisticated, barrier-free bathroom drainage for domestic, hotel, commercial and leisure applications where style, function and performance are pre-requisites.

Level entry wet room showers are easier, safer and more comfortable than standard shower tray designs. They are also much easier to maintain.

ShowerDrain products facilitate easy and convenient conformance to **Part M Building Regulations - Access To and Use of Buildings for level access to bathrooms.**



ACO Shower Channel

Austenitic stainless steel linear drainage channels with clean lines that characterise today's trends in bathroom design.

Page - 6



ACO Lightline

ACO Lightline is an illumination kit for ACO Shower Channels and stainless steel designer gratings.

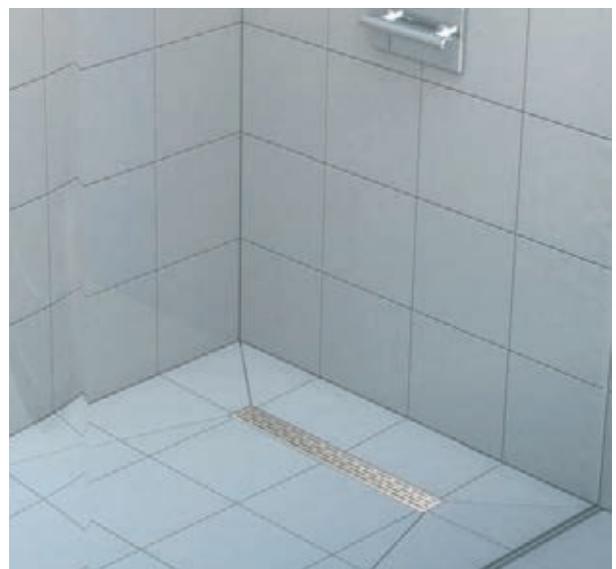
Page - 10



ACO ShowerDrain C Line

The ShowerDrain C series is characterised by modern design, perfect functionality and high flow capacity.

Page - 12



ACO Wetroom Former

The ACO Building Drainage wetroom former provides the ultimate bathing facility without compromise.

Page - 15



ACO Walk-in Solution

Your exclusive entry - with the Walk-in solution you set a high quality and unusual accent to your wetroom.

Page - 17



ACO Shower Gully

Compact and attractive stainless steel point gullies for a wide range of applications where capacity is a key factor.

Page - 18



ACO Easyflow

ACO Easyflow floor gullies provide the ideal drainage solutions to complement modern bathroom design where efficient function and stylish appearance are pre-requisites.

Page - 24



ACO Lightpoint

ACO Lightpoint is an illumination kit for the ACO Easyflow Gully systems.

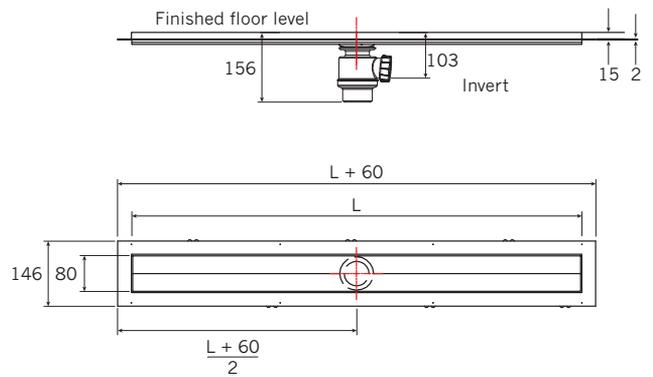
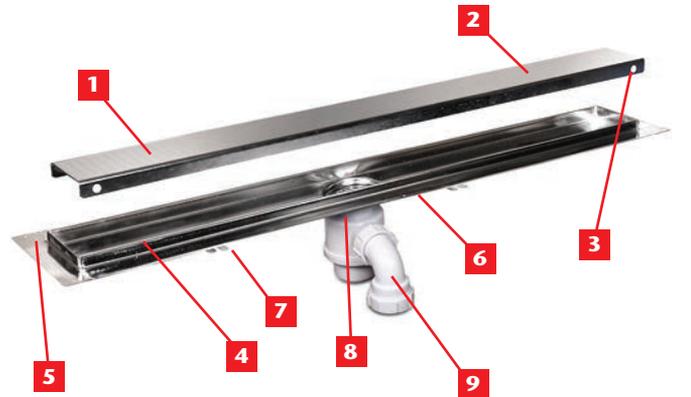
Page - 29



Shower channel system for tiled flooring

Features and benefits

- 1** Five lengths, 700-1200mm gratings designed to fit most applications.
- 2** Choice of attractive grating designs.
- 3** Friction lock ensures safe grating retention, yet is easily removed without the need for special tools.
- 4** Corrosion resistant stainless steel channel body ensures trouble-free and long-life use. 'Vee' channel base eliminates standing water and aids efficient flow to outlet.
- 5** Stainless steel bonding flange integrated with channel body design ensures fully watertight construction and the ideal interface to wetroom tanking materials for assured adhesion.
- 6** Fixing holes for timber floor installation.
- 7** Anchor tangs for concrete/screed floor installation.
- 8** High flow rate 0.4 l/s corrosion resistant ABS foul air trap with 50mm water seal to BS EN 1253 with full 360° rotation for convenient waste pipe connection. Trap elements easily removed for cleaning and access without special tools.
- 9** 40mm multi-fit waste pipe connection accepts all 40mm (1½") solvent weld and push-fit waste pipes to BS 5254 and BS 5255. Variable orientation outlet for horizontal or vertical waste pipe connection.



All dimensions in mm

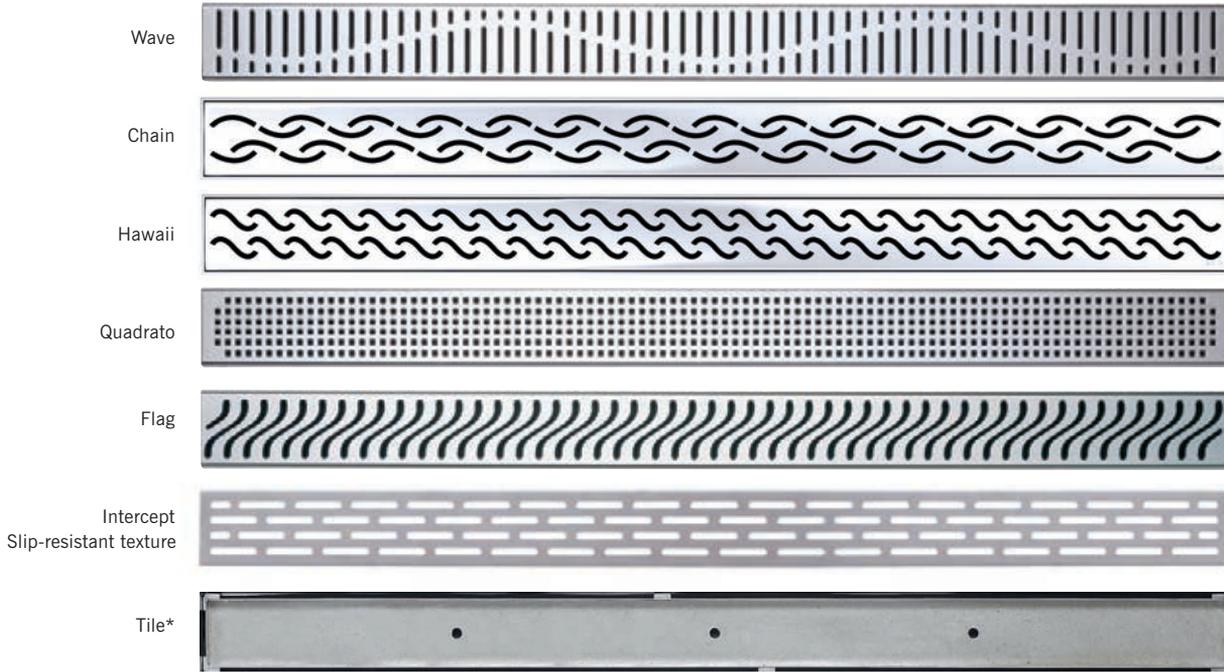
Foul Air Trap 50mm Water Seal Part No	Visible Shower Channel Length L (mm) and Part No				
	L = 700	L = 800	L = 900	L = 1000	L = 1200
91095	04435	04436	04460	04441	04448

Note: Channel part numbers **exclude grating and foul air trap**. These items are to be ordered separately.

Standard Specification Clause Reference

For relevant specification, refer to page 46.

Grating selection for shower channel system for tiled flooring



*Cut tile (10mm thick max.) to size. Use tile adhesive to fix in grating. Apply grout.



Grating Design	Visible Grating Length L (mm) and Part No					Max Waterway Aperture Width (mm)
	L = 700	L = 800	L = 900	L = 1000	L = 1200	
Wave	04449	04467	04461	04442	04450	5
Chain	105690	105691	105692	105693	105694	5
Hawaii	105695	105696	105697	105698	105699	5
Quadrato	04437	04438	04471	04445	04455	5
Flag	04458	04474	04475	04447	04459	5
Intercept	105636	105637	105638	105639	105640	6
Tile	105630	105631	105632	105633	105634	6



Grating selection for channel system for tiled flooring



Example of glass grating in shower channel.

Glass gratings available to special order

Length (mm)	Part. no.	Grating Design
700	9010.56.67	
800	9010.56.68	
900	9010.56.69	
1000	9010.56.70	
1200	9010.56.71	
<hr/>		
700	9010.56.72	
800	9010.56.73	
900	9010.56.74	
1000	9010.56.75	
1200	9010.56.76	
<hr/>		
700	9010.56.77	
800	9010.56.78	
900	9010.56.79	
1000	9010.56.80	
1200	9010.56.81	

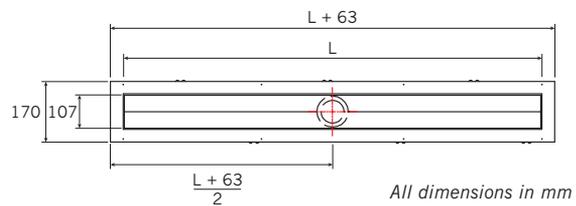
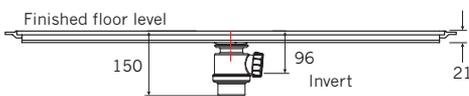
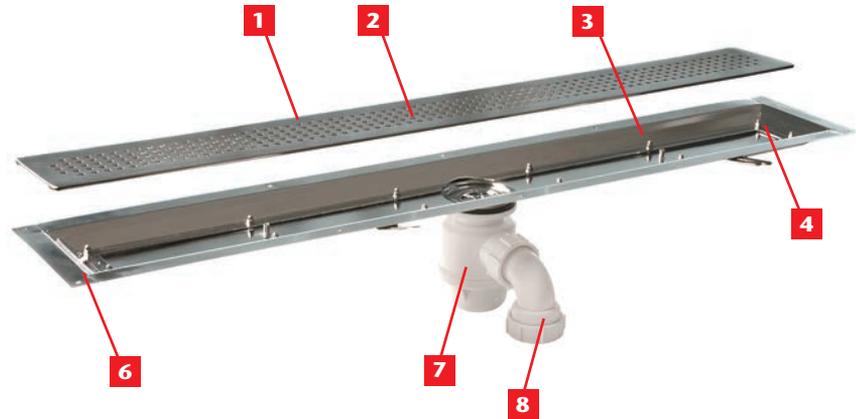
Length (mm)	Part. no.	Grating Design
700	9010.57.12	
800	9010.57.13	
900	9010.57.14	
1000	9010.57.15	
1200	9010.57.16	
<hr/>		
700	9010.57.17	
800	9010.57.18	
900	9010.57.19	
1000	9010.57.20	
1200	9010.57.21	
<hr/>		
700	9010.56.82	
800	9010.56.83	
900	9010.56.84	
1000	9010.56.85	
1200	9010.56.86	



Shower channel system for flexible sheet flooring

Features and benefits

- 1** Attractive finished stainless steel grating options.
- 2** Textured grating styles available for enhanced slip resistance performance.
- 3** Grating locks for user safety.
- 4** Mechanical clamping system for ultimate reliability for flexible sheet flooring.
- 5** Suitable for screed or suspended timber floor construction.
- 6** Durable, slim profile fully welded stainless steel construction.
- 7** High flow rate, 50mm water seal 0.4 l/s trapped outlet with 40mm Multi-fit waste connection.
- 8** Easy horizontal or vertical outlet configuration.



Foul Air Trap 50mm Water Seal Part No.	Visible Shower Channel Length L (mm) and Part No				
	L = 700	L = 800	L = 900	L = 1000	L = 1200
91095	105781	105782	105783	105784	105785

Note: Channel part numbers **exclude grating and foul air trap**. These items are to ordered separately.

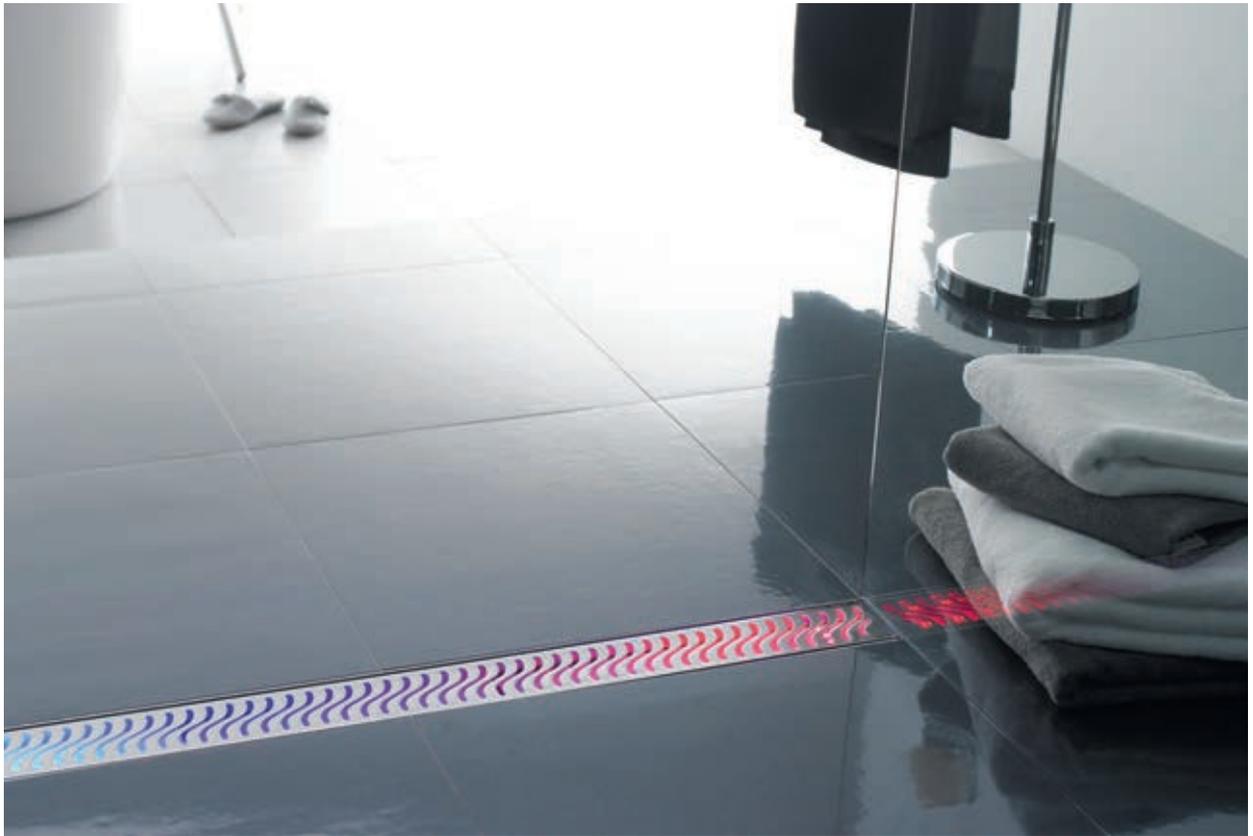
Grating selection for channel system for flexible sheet flooring



Grating Design	Visible Grating Length L (mm) and Part No					Max Waterway Aperture Width (mm)
	L = 700	L = 800	L = 900	L = 1000	L = 1200	
Quadrato finished	105786	105790	105794	105798	105802	6
Quadrato slip-resistant	105787	105791	105795	105799	105803	6
Intercept finished	105788	105792	105796	105800	105804	6
Intercept slip-resistant	105789	105793	105797	105801	105805	6



ACO Lightline



Product description

ACO Lightline is an illumination kit for ACO Shower Channels* for tiled floors and stainless steel designer gratings.

Two re-chargeable low voltage battery operated LED modules fit directly into the grating and illuminate automatically when in contact with water and switch off after approximately 2 minutes when the shower is switched off.

Available in four colours: Blue, Red, Green and Rainbow.

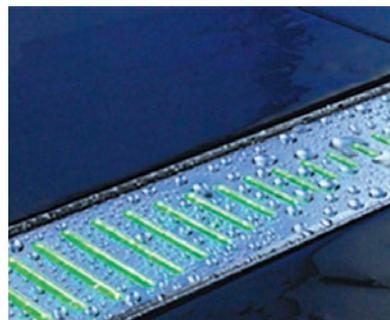
*Not compatible with ACO Building Drainage ShowerDrain 'C' Line systems.



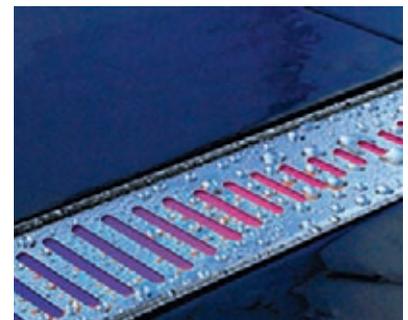
Blue



Red



Green



Rainbow

ACO Lightline

Technical Data

Two LED Units:

Each unit contains 4 LED's available in red, blue, green and rainbow.
 Battery: 3.6 volts @ 2700 mAh

Re-Charging Unit:

Input: 110-249V AC, 50/60Hz, 180mA
 Output: 9V DC, 600mA max.



LED Units



Illumination kit
 (includes UK adaptor)



Charge LED units ready for installation.



Remove the grating.



Insert LED units and fix with plastic pins, then re-insert the grating.

Notes: For further details please see the installation details, supplied with every kit.
 Not compatible with ACO Building Drainage ShowerDrain 'C' Line systems.



Part No.	Description
105651	ACO Lightline module Blue
105652	ACO Lightline module Red
105653	ACO Lightline module Green
105654	ACO Lightline module Rainbow

Note: Replacement single LED block in all colours available by special order.



ACO ShowerDrain C linear solution

The ShowerDrain C series is characterised by modern design, perfect functionality and high-flow capacity. This high quality stainless steel shower channel system is available with a wide range of gratings and includes the channel body and integrated foul air trap.

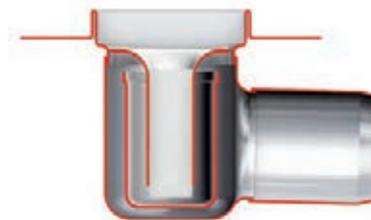
The foul air trap is manufactured from corrosion resistant polypropylene. The stainless steel components are pickle passivated; the gratings are brushed to silk gloss.

The ACO ShowerDrain C has been specifically designed for high flow rate capacity, very low construction height and easy maintenance.



Features and benefits

1 Compact shower channel system - The ACO ShowerDrain C has an overall height of 92mm making it ideal for shallow screed applications.



2 Easy maintenance - The user's comfort is increased by the efficiency of the foul air trap and its easy maintenance. The air-tight seal is injection-moulded together with the foul air trap eliminating any risk of lost seals. The foul air trap is easily removed from the shower channel and is easy to dismantle to be cleaned by hand or dish washer.



3 Versions of ACO ShowerDrain C - The visible grating width is 70 mm and available in 7 lengths – 585 mm, 685 mm, 785 mm, 885 mm, 985 mm, 1085 mm and 1185 mm for all solid concrete or timber floor applications.



There are 5 attractive stainless steel grating styles available and brushed to silk gloss.

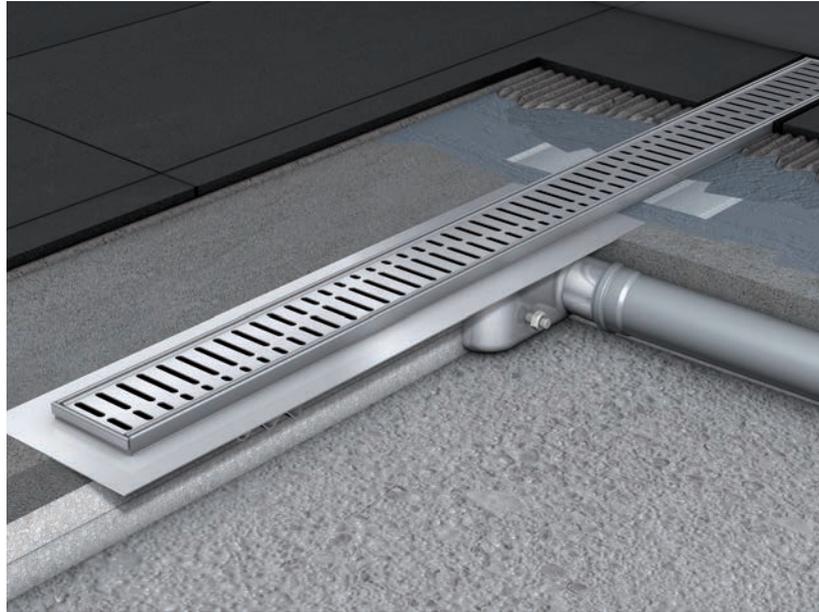
4 Gratings - The stainless steel ShowerDrain C gratings have a unique profile in which the centre section of the grating is lower than the edges. This significantly reduces the risk of overshooting water.



ShowerDrain C with horizontal tanking flange

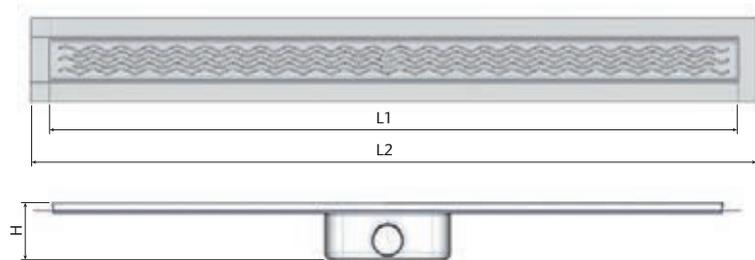
Product description

- Drainage channel with 50mm spigot outlet.
- Overall height: 92 mm.
- Stainless steel channel and grating construction.
- Tested according to BS EN 1253: flow rate 0.95 l/s, flow rate at entrance of shower: 0.5 l/s, flow rate against the wall: 0.8 l/s.
- Integrated removable foul air trap with 50mm water seal to BS EN 1253.
- Visible channel width: 70 mm.
- Channel body with lateral slope.
- Brushed silk gloss gratings.
- Integral tanking flange.



Product advantages

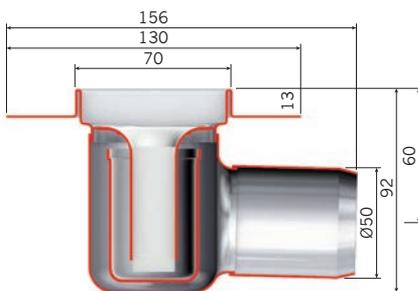
- Fully welded stainless steel body, eliminates risk of leakage.
- Low construction height ideal for refurbishment projects.
- Easy removed and cleaned foul air trap, full access to the outlet pipe.
- Unique profile of gratings reduces water over-shoot.



H = 92 mm with standard FAT (water seal height 50 mm)

Installation dimensions

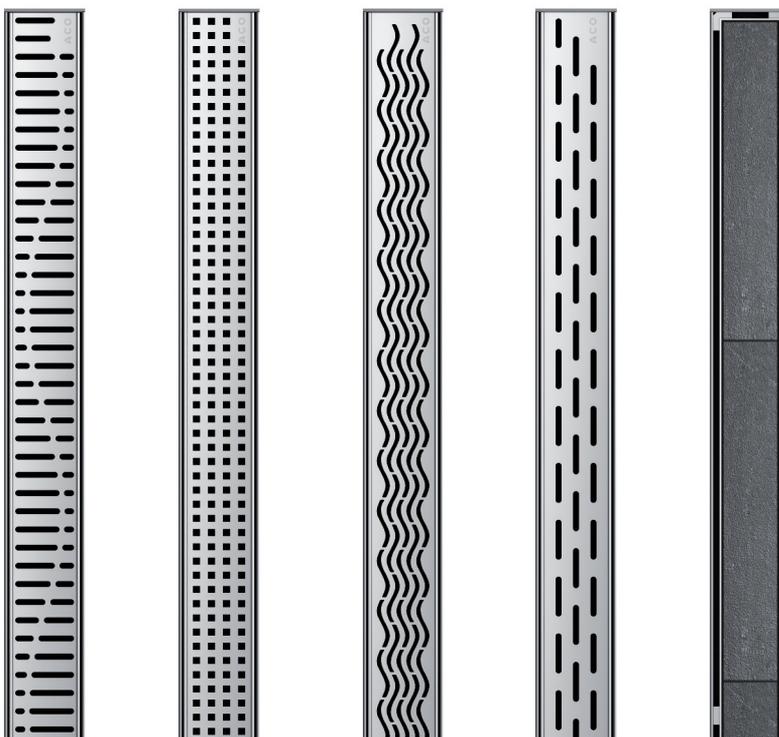
L1 (mm)	585	685	785	885	985	1085	1185
L2 (mm)	645	745	845	945	1045	1145	1245



Installation with tanking flange

ShowerDrain C with horizontal tanking flange

Order data – channel complete with grating and foul air trap



Length L1 (mm)	Height H (mm)	Grating				Max tile thickness: 10 mm
		Wave	Quadrato	Water	Slot	
585	92	404484	404492	406452	403798	408651
685	92	404485	404493	406453	403799	408652
785	92	404486	404494	406454	403800	408653
885	92	404487	404495	406455	403801	408654
985	92	404488	404496	406456	403802	408655
1085	92	404489	404497	406457	403803	408656
1185	92	404490	404498	406458	403804	408657

Wetroom former

The ACO Building Drainage wetroom former provides the ultimate bathing facility without compromise.

The rigid, load bearing formers have built-in pre-sloped falls. These lead to an attractive all stainless steel linear drainage channel to provide a high capacity drainage solution.

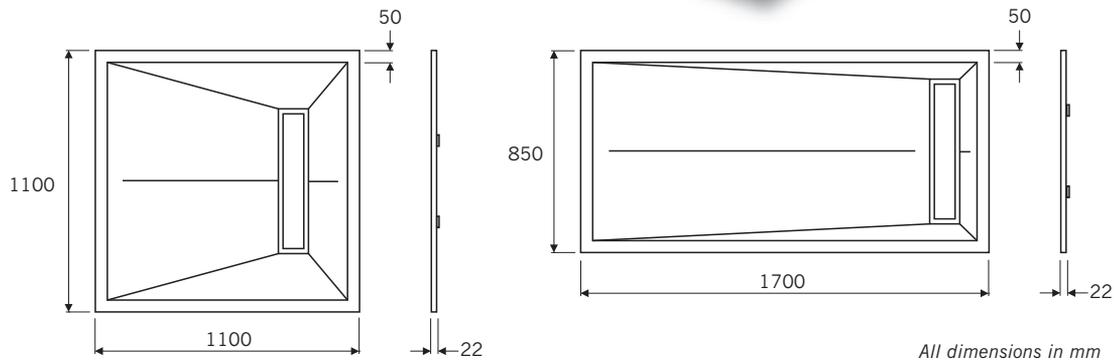
Available in two sizes, the 22mm thick former and high capacity linear drainage channel with a choice of five stainless steel gratings, combined with easy and quick installation, provides the perfect solution for specifier, installer and user.

The system has been specifically designed to provide a safe and highly functional bathing environment for all members of the household.



Step 1 - Select the former size

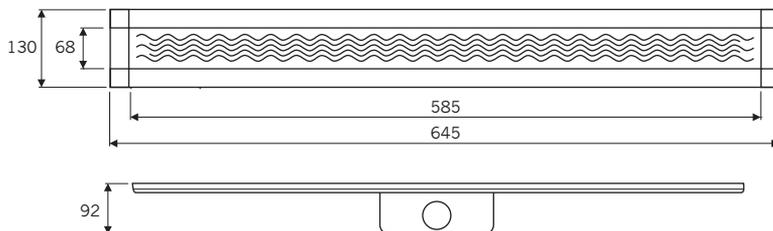
ACO Wetroom Former



Part No	Description
105751	Square former with built-in falls 1100 x 1100 x 22
105752	Rectangular former with built-in falls 1700 x 850 x 22

Wetroom former

Step 2 - Select the grating design - ACO ShowerDrain 'C' Line channel with a choice of five gratings



All dimensions in mm

Part No	Description	Design
404484	Wave	
404492	Quadrato	
406452	Water	
403798	Slot	
408651	Tile version (10mm max tile thickness)	

For further information and installation video on ACO Building Drainage Wetroom Former please visit our website www.acobuildingdrainage.co.uk or call us on 01462 816 666



Weber tanking system



Tanking system - A ready-mixed, under-tile tanking system to protect water-sensitive substrates from exposure to water

Part No	Description
105617	Weber. sys. protect tiling solution for 5m ² includes liquid membrane and tape
105753	Weber. sys. protect liquid membrane 7kg for 7m ² for larger areas
105754	Weber. sys. protect tape 10m for larger areas

Walk-in solution

Your exclusive entry - with the Walk-in solution you set a high quality and unusual accent to your wetroom.

Choice of two luxurious wooden gratings (roll-up grating in teak and bar grating in lapacho) seating over an electro-polished stainless steel tray.

This is without outlet and suitable only for concrete floors for use within dry zones only.



Walk-in stainless steel tray with electro-polished surface

- Installation only for dry zones
- Suitable only for concrete floors
- Hard foam tray support permanently bonded to the walk-in stainless steel tray
- Bonding flange for full tanking connection
- Walk-in stainless steel tray without outlet socket

Part No.	L1 (mm)	L2 (mm)
9010.56.23	700	760
9010.56.24	800	860
9010.56.25	900	960
9010.56.26	1000	1060
9010.56.27	1200	1260



Roll-up grating in teak wood

Part No.	L (mm)
9010.58.49	700
9010.58.50	800
9010.58.51	900
9010.58.52	1000
9010.58.53	1200



Bar grating in lapacho wood

Part No.	L (mm)
9010.58.35	700
9010.58.36	800
9010.58.37	900
9010.58.38	1000
9010.58.39	1200



Accessories

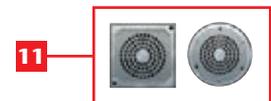
Service pack for wooden gratings for Walk-in Solutions

- Part Number 105861

Gully system for flexible sheet or tiled flooring

Features and benefits

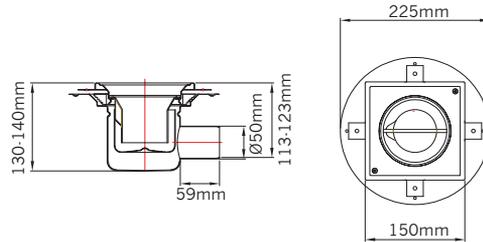
- 1** 150mm square top tile grating in 9 individual styles. Refer to page 22.
- 2** Barefoot friendly electro-polished stainless steel grating designs.
- 3** Foul air trap conforms to BS EN 1253 requirements for 50mm water seal. High 1.2 l/s flow rate suitable for most modern showers.
- 4** Separate flexible sheet flooring clamp avoids installation disturbance during cleaning and maintenance, or acts as a dpm clamp on tiled system.
- 5** Locked grating for added safety and security.
- 6** Compact horizontal outlet bodies ideal for shallow invert waste pipe connections with easy to install flat bottomed body design to aid installation.
- 7** Vertical outlet spigot options for suspended or solid floor construction.
- 8** Tile grate bezel interfaces with main gully body. Optional grating bezel extension for deep screed applications. Refer page 19.
- 9** Rotational and vertical adjustment on ceramic tile models accommodates orientation, finished floor level and position adjustments.
- 10** Supplied boxed complete with universal 2"/50mm connector and 2"/50mm to 1½"/40mm reducer for easy and convenient connection to horizontal or vertical pipe outlet configuration.
- 11** Square or circular perforated grating available in *slip resistant* finish that adds style as well as improving wet grip. Refer page 22.



Gully system for flexible sheet or tiled flooring

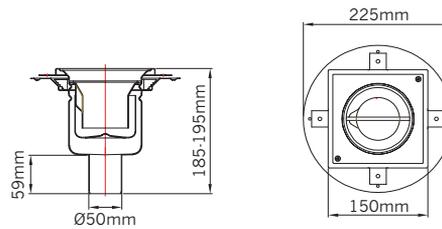
Technical and order data for vertical and horizontal gullies - tiled and cementitious flooring applications

Universal waste pipe connectors not shown



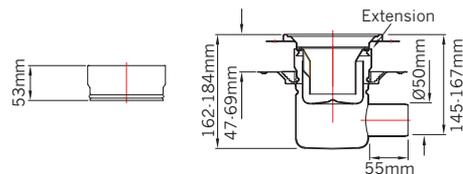
Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405821	50mm Horizontal outlet - tile	1.2	2.3	K3

Universal waste pipe connectors not shown



Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405817	50mm Vertical outlet - tile	1.2	2.3	K3

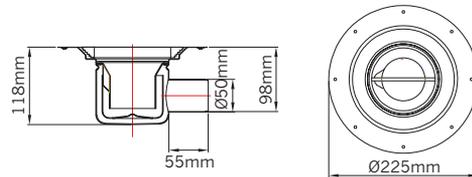
Optional grating bezel extension - for use with tile options only



Part No	Description	Weight kg	Overall Gully Height mm
402725	Extension	0.2	162 - 184

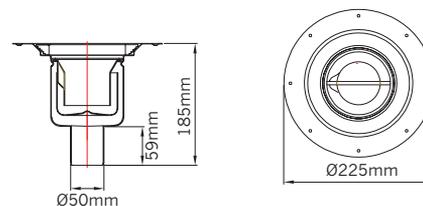
Technical and order data - flexible sheet flooring applications

Universal waste pipe connectors not shown



Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405819	50mm Horizontal outlet - vinyl	1.2	1.9	K3

Universal waste pipe connectors not shown



Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405815	50mm Vertical outlet - vinyl	1.2	1.9	K3

Note: All gullies are supplied **without** grating. Select grating option from page 22.



Vertical spigot slab penetration gullies

Introduction

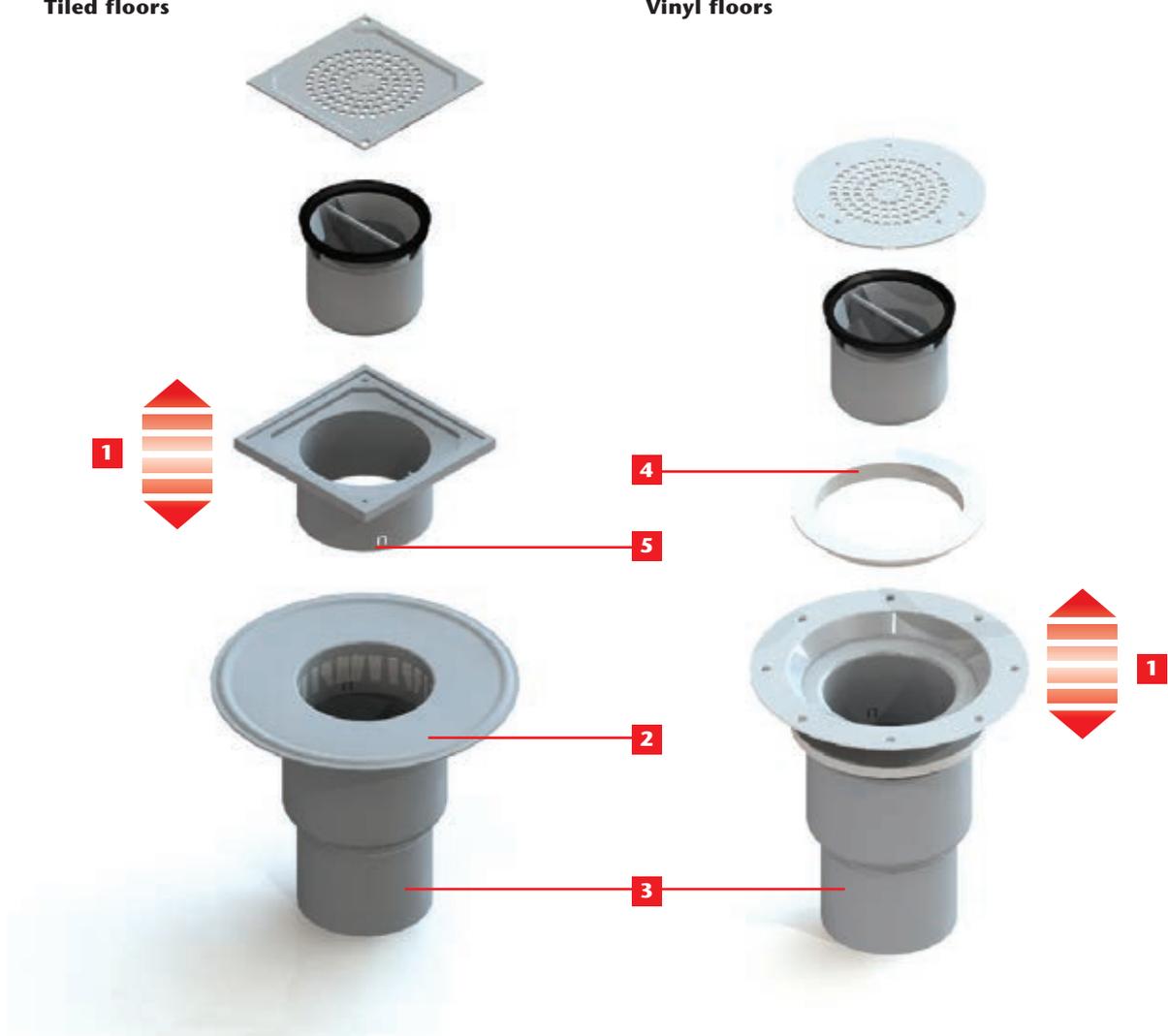
Gully bodies with 110mm outlet are available to enable direct connection to below ground drainage where required.

Features and benefits

- 1** Telescopic height adjustment providing full 360° rotation and +/- 7.5° pitch and roll adjustment.
- 2** DPM bonding flange.
- 3** 110mm vertical spigot trapped outlet.
- 4** Flexible sheet flooring clamp.
- 5** Integrated end stops preventing accidental dismantling.

Tiled floors

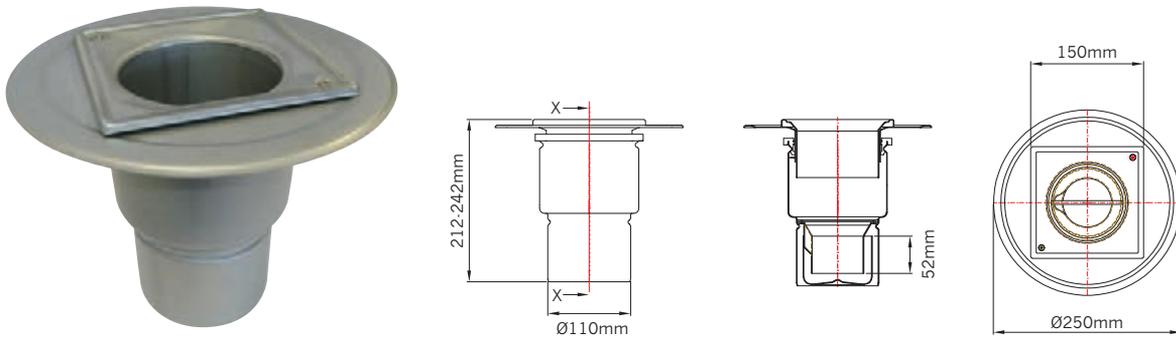
Vinyl floors



Note: 32mm/40mm back inlet gully body options available upon request.

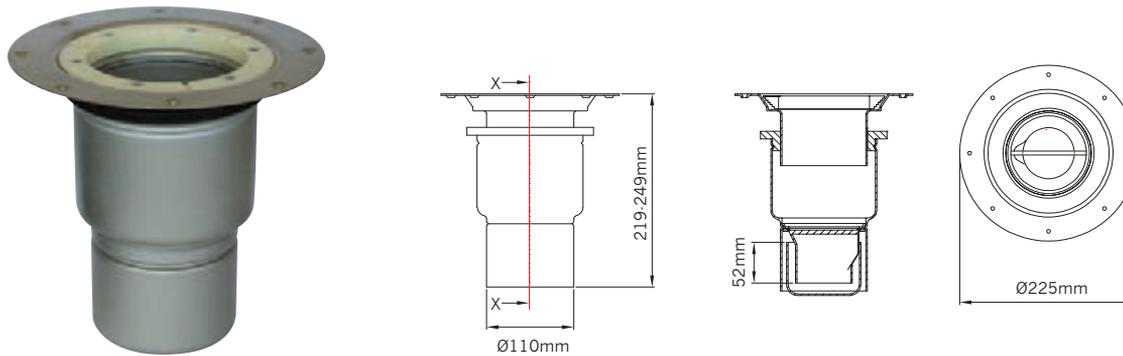
Vertical spigot slab penetration gullies

Technical and order data - tiled and cementitious flooring applications



Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405854	110mm Vertical outlet - tile	1.2	1.2	K3

Technical and order data - flexible sheet flooring applications



Part No	Description	Flow Rate l/s	Weight kg	Load Class BS EN 1253
405855	110mm Vertical outlet - vinyl	1.2	1.7	K3

Note: All gullies are supplied without grating. Select grating option from page 22.

Standard specification clause reference

For relevant specification, refer to page 46.

Grating selections for gully systems

Grating Only Part No 304 Stainless Steel	Grating Style	304 Stainless Steel (electro-polished)	Load Class to BS EN 1253	Suitable For	Weight kg	Dimension mm
104039	Quadrato		K3	Tiled Cement	0.25	135 x 135
104040	Wave		K3	Tiled Cement	0.25	135 x 135
104041	Mondo		K3	Tiled Cement	0.25	135 x 135
104042	Linea		K3	Tiled Cement	0.25	135 x 135
104043	Wellness		K3	Tiled Cement	0.25	135 x 135
104044	Classic		K3	Tiled Cement	0.25	135 x 135
104045	Arco		K3	Tiled Cement	0.25	135 x 135
104046	Pop		K3	Tiled Cement	0.25	135 x 135
401183	Perforated Square		K3	Tiled Cement	0.25	135 x 135
104047	Slip Resistant Perforated Square		K3	Tiled Cement	0.25	135 x 135
401185	Perforated Circular		K3	Flexible Sheet Flooring	0.25	Ø 157
104048	Slip resistant Perforated Circular		K3	Flexible Sheet Flooring	0.25	Ø 157

Notes:

1. All gratings are supplied complete with fixings. Maximum waterway inlet slot width: 8mm.
2. All gratings electro-polished stainless steel as standard with the exception of the slip resistant gratings.



Grating selection for gully systems

Slip resistant gratings

ACO have developed an attractive, *slip resistant* finish for their standard gully gratings in response to HSE initiatives relating to reduction of slips and trips in wet environments. The process involves a retexturing of the metal surface and avoids the need for paint-on treatments or fitted inserts. Slip tests in conformance with BS 7976 parts 1-3:2002 carried out on ACO *slip resistant* gratings reliably exceed the “Low Slip Potential” of SRV36.

Features and benefits

ACO slip resistant gratings are ideal for shower areas, wet rooms, washdown areas, ablution facilities and particularly effective when used in conjunction with flexible sheet safety flooring.

- High slip resistant value - typically SRV60
- Comfortable for bare feet
- Corrosion resistant stainless steel, grade 304
- Attractive two-tone finish
- Excellent wear qualities
- No paint-ons
- No protruding parts

Tiled flooring



Vinyl flooring



Grating Only Part No 304 Stainless Steel	Grating Style	304 Stainless Steel (electro-polished)	Load Class to BS EN 1253	Suitable For	Weight kg	Dimension mm
104047	Slip Resistant Perforated Square		K3	Tiled Cement Screed	0.25	135 x 135
104048	Slip Resistant Perforated Circular		K3	Flexible Sheet Flooring	0.25	Ø 157



EasyFlow gullies

Introduction

ACO Easyflow floor gullies provide the ideal drainage solutions to complement modern bathroom design where efficient function and stylish appearance are pre-requisites.

A wide selection of square or circular high quality electro-polished stainless steel designer gratings is available to match desired ambience and design effects.

Optional grating locks are available for square grating applications in public areas, such as fitness centres, spas, hotels or anywhere accessed by the general public.

There are Easyflow drainage products available for most flooring and installation details – solid concrete floors, timber joisted floors, ceramic tiles and resin construction.

For tanked wetroom applications, a selection of gully tops is available to ensure a 100% watertight installation.

The wide choice of gratings provides elegant options to suit every taste.

The electro-polished austenitic stainless steel gratings, ABS and polypropylene top sections and gully bodies together provide a tough, corrosion resistant product guaranteed to provide a long, trouble-free installation.



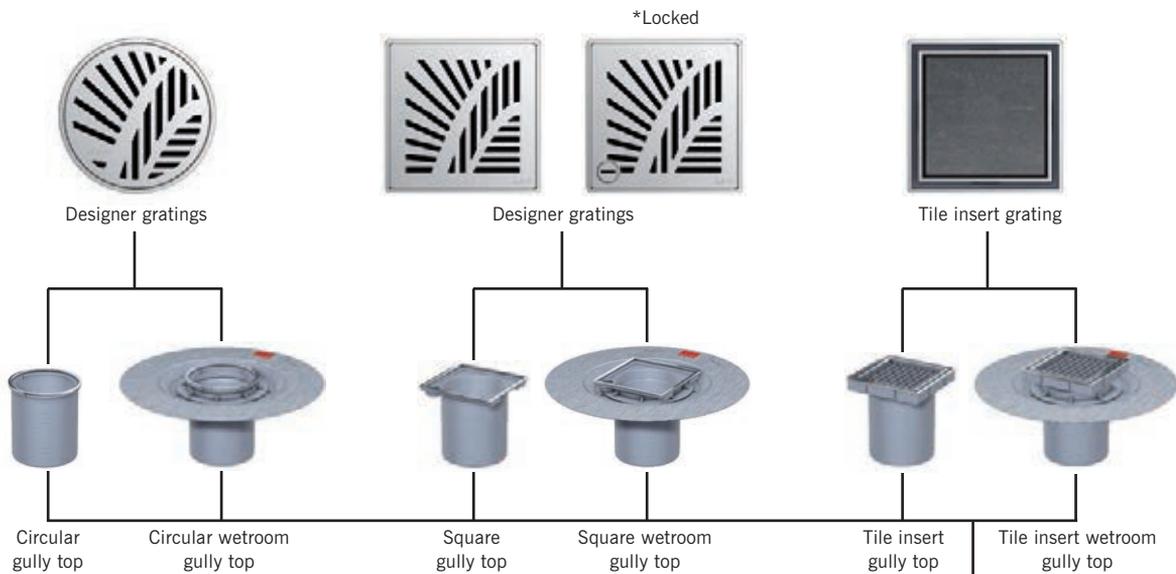
Additionally, all components are 100% recyclable contributing to a sustainable environment.

All ACO Easyflow floor gullies are supplied complete with a removable foul air trap for quick and easy maintenance.

A water seal of 50mm conforms to BS EN 1253 and eliminates potential odours that can result from pressure fluctuations in downstream drainage connections. Additionally, effects of evaporation are significantly reduced following long periods without use.

EasyFlow gullies

System overview



The modular construction of ACO Easyflow bathroom drainage gullies provides fully flexible drainage solutions to modern bathroom design.

Designer Grating Selection

- Electro-polished stainless steel gratings
- Barefoot friendly
- Tile insert grating for up to 11.5mm thick tile, including tile adhesive
- All gratings to Load Class K3 to BS EN 1253

Gully Tops

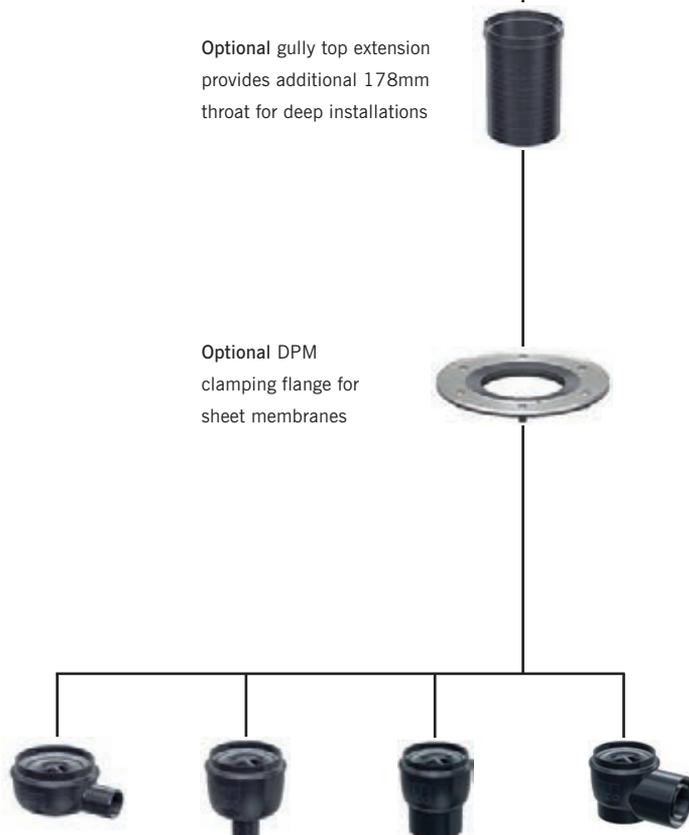
All gully tops are manufactured from ABS and are easily trimmed to length to suit installation and supplied with stainless steel bezel. Circular or square gully tops available with fully sealed polypropylene fleece for quick and convenient integration with brush or roller applied wetroom tanking systems.

Gully Body

Tough, corrosion-resistant polypropylene construction ensures reliable, long life. The gully body is supplied complete with a removable foul air trap for easy cleaning and maintenance. 50mm water trap seal conforms to BS EN 1253. Up to 2 l/s flow rate.

Optional gully top extension provides additional 178mm throat for deep installations

Optional DPM clamping flange for sheet membranes



EasyFlow gullies

Technical and order data for gully tops

Part No	Description	Details	Weight kg
105730	<p>Square Plastic Gully Top (Screed)</p> <p>For screed floors with stainless steel bezel for locked or non-locked square gratings. Height adjustable from 18mm to 135mm with Easyflow gully bodies.</p>		0.3
105731	<p>Square Plastic Gully Top (Wetroom)</p> <p>With stainless steel bezel for locked or non-locked square gratings complete with wetroom polypropylene fleece. Height adjustable from 36mm to 135mm with Easyflow gully bodies. Compatible with tiles up to 20mm thick*.</p>		0.8
105732	<p>Circular Plastic Gully Top (Screed)</p> <p>For screed floors with stainless steel bezel for circular gratings. Height adjustable from 8mm to 135mm when combined with Easyflow gully bodies.</p>		0.3
105733	<p>Circular Plastic Gully Top (Wetroom)</p> <p>With stainless steel bezel for circular gratings complete with wetroom polypropylene fleece. Height adjustable from 36mm to 135mm when combined with Easyflow gully bodies.</p>		0.7
105734	<p>Square Tiled Plastic Gully Top (Screed)</p> <p>For screed floors for in-situ tiling. Height adjustable from 26mm to 135mm with Easyflow gully bodies. Accepts in-lay tile up to 11.5mm thick. 6mm drainage slot width.</p>		0.6
105735	<p>Square Tiled Plastic Gully Top (Wetroom)</p> <p>For in-situ tiling complete with wetroom polypropylene fleece. Height adjustable from 36mm to 135mm with Easyflow gully bodies. Accepts in-lay tile up to 10.5mm thick. 6mm drainage slot width.</p>		0.9

* For tiles thicker than 20mm, use 6.5mm Gully Top Spacer Ring(s) Part No 105738 as appropriate.

Note: Gully tops with polypropylene fleece are suitable for either screed floors or wooden floors.

EasyFlow gullies

Technical and order data for gully bodies and accessories

Part No	Description	Details	Weight kg
105726	<ul style="list-style-type: none"> ■ Flow rate: 1.5 l/s ■ Ø50mm horizontal spigot outlet ■ Removable foul air trap ■ 50mm water seal ■ Tough polypropylene construction ■ Certified to BS EN 1253 		0.5
105727	<ul style="list-style-type: none"> ■ Flow rate: 1.6 l/s ■ Ø50mm vertical spigot outlet ■ Removable foul air trap ■ 50mm water seal ■ Tough polypropylene construction ■ Certified to BS EN 1253 		0.5
105728	<ul style="list-style-type: none"> ■ Flow rate: 1.8 l/s ■ Ø110mm horizontal spigot outlet ■ Removable foul air trap ■ 50mm water seal ■ Tough polypropylene construction ■ Certified to BS EN 1253 		0.6
105729	<ul style="list-style-type: none"> ■ Flow rate: 2.0 l/s ■ Ø110mm vertical spigot outlet ■ Removable foul air trap ■ 50mm water seal ■ Tough polypropylene construction ■ Certified to BS EN 1253 		0.6
105736	<p>Gully top extension</p> <ul style="list-style-type: none"> ■ Polypropylene construction easily trimmed on site 		0.1
105737	<p>DPM clamping flange for sheet membranes</p> <ul style="list-style-type: none"> ■ ABS flange body ■ Stainless steel DPM clamp 		0.7
105738	<p>Gully top spacer ring</p> <ul style="list-style-type: none"> ■ For all wetroom/fleeced gully tops ■ 6.5mm raising spacer ■ For square or circular gully tops 		0.01

All dimensions in mm



Grating selections for EasyFlow gullies

The wide choice of gratings provides elegant options to suit every taste. All designer gratings are manufactured from electro-polished 304 grade austenitic stainless steel.

Circular gratings are Ø126mm x 5mm thick; weight: 0.4kg. No locking.

Square gratings are 140mm x 140mm x 5mm thick; weight: 0.6kg. Optional locking available.

Square gratings

Part No. (no lock)	Design
105714	Wave
105709	Quadrato
105712	Forest
105715	Hawaii
105716	Mix



Wave



Quadrato



Forest



Hawaii



Mix

Part No. (with lock)	Design
105723	Wave
105718	Quadrato
105721	Forest
105724	Hawaii
105725	Mix

All square gratings are also available with lock for applications in public areas, such as fitness centres, spas, hotels or anywhere accessed by the general public.

Round gratings

Part No. (no lock)	Design
105705	Wave
105701	Quadrato
105704	Forest
105706	Hawaii
105707	Mix



Wave



Quadrato



Forest



Hawaii



Mix



Lock released with coin or screwdriver.



Spring loaded release raises grating.



Easy removal and replacement of grating.

ACO Lightpoint



Product description

ACO Lightpoint is an illumination kit for the ACO Easyflow Gully systems. The kit includes one LED module, re-charging unit, UK adaptor and installation details.

A re-chargeable low voltage battery operated LED module fits directly into the Easyflow gully body and illuminates automatically when in contact with water, switching off approximately two minutes after the shower area is dry.

Available in four colours:
Blue, Red, Green and Whitewarm



Red



Blue



Green



Warmwhite

Technical Data

Part No.	Description
105830	ACO Lightpoint module Red
105831	ACO Lightpoint module Blue
105832	ACO Lightpoint module Green
105833	ACO Lightpoint module Warmwhite

Wall Power Supply:

Input: 230V
Output: 9V DC, 800mA

Dimensions of Re-charging Unit:

60mm (L) x 115mm (W) x 70mm (H)

Re-charging Unit:

Input: 9V DC, 300mA
Charging time: 18 hours
Automatic switch off after charging
Maximum voltage at contacts: 9V DC

Note: Replacement single LED block in all colours available by special order.

Cleaning Methods

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. Cif, Goddard Stainless Steel Care).	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. 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 Cif 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. Then 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).

ALWAYS READ INSTRUCTIONS ON PROPRIETARY CLEANING AGENTS BEFORE USE.

Precautions

Acids should only be used for cleaning when all other methods have been proved unsatisfactory.



ACO Shower Channel Systems

Servicing of foul air trap



1. Remove the grating and gently prise open by inserting a flat blade screwdriver into either end of the grating between the grating and channel body. Note that the grating has 4 plastic inserts on its edge to provide necessary friction to hold the grate in place.
2. Simply pull the drain strainer out. The foul air trap can be removed by turning 1/4 turn anti-clockwise, and pulling out. Clean thoroughly with soapy water. Re-insert by lubricating the sealing ring with petroleum jelly, pushing the trap firmly down and twisting 1/4 turn clockwise. Check full location by gently pulling upward. Replace drain strainer, the grating is re-inserted by pressing down evenly into the channel.

ACO ShowerDrain 'C' Line

Cleaning & maintenance



Step 1. Grating removal



Step 2. Foul air trap removal



Step 3. Separate foul air trap components

- i. The grating is retained in the channel body using a friction lock. Remove the grating using the tool supplied by inserting into a slot at the end of the grating and gently pull to remove the grating. Similarly, remove the foul air trap using the same tool as shown below.
- ii. Separate the inner and outer sections of the foul air trap by pulling the two components apart. Wash components in warm, soapy water. Rinse and re-assemble foul air trap.
- iii. With the grating and channel removed, rinse all stainless steel items in warm soapy water. Wipe dry.
- iv. Replace foul air trap and grating. Prime trap with clean water to prevent odours.

Installation overview

Introduction

The installation details shown in the following pages set out to provide the designer with integrated solutions to wet room floor drainage identifying preparation, installation and construction processes required to install waterproof channels and floor gullies in level access wet room environments.

Whilst these details do not cover every possible situation, they do provide a practical reference to most design applications.

ACO Building Drainage acknowledge with thanks the advice provided in the following specialist fields:



Building Adhesives Ltd
WP1 and Fastflex wet room floor tanking systems.
Tel: 01782 591100
www.bal-adhesives.co.uk



Hodgson & Hodgson Group Ltd
REDUC acoustic overlay flooring systems.
Tel: 01664 821810
www.acoustic.co.uk



Schluter Systems Ltd
Schluter DITRA & Schluter KERDI wet room floor uncoupled tanking systems.
Tel: 01530 813396
www.schluter.co.uk

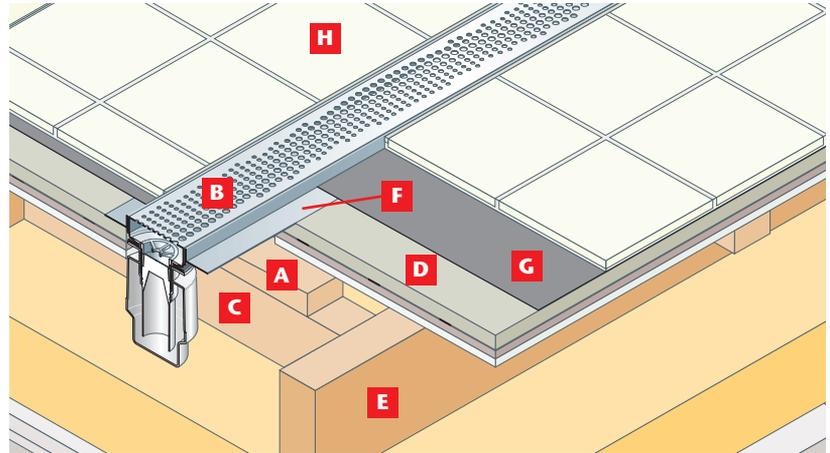


Saint-Gobain Weber Limited
Weber.sys protec wet room floor tanking system.
Tel: 08703 330070
www.netweber.co.uk

ACO channel systems

Tiles in joisted acoustic floor

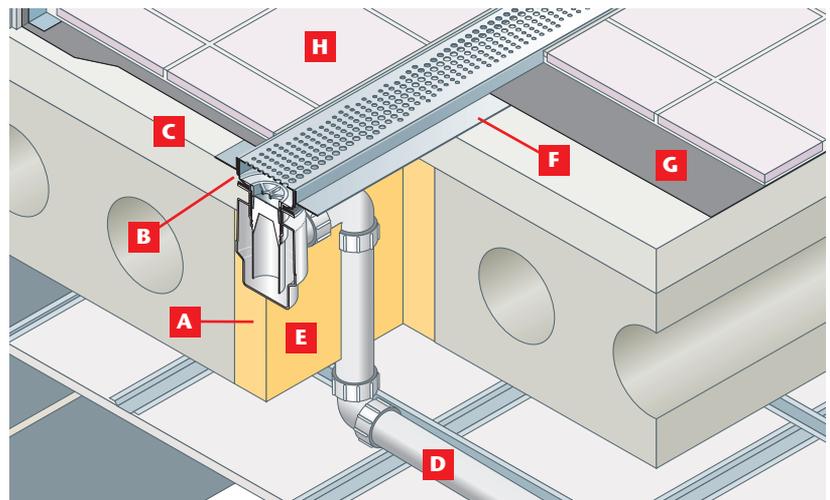
1. Where alterations to joists are necessary consult Structural Engineer for advice and reinforce joists as advised. Cut firrings **A** to 1:80 fall towards channel **B** and fix to blocking **C** between joists.
2. Lay acoustic overfloor **D** in accordance with manufacturer's instructions, cut rectangular hole and locate shower channel body **B** parallel to joists **E**.
3. Bond and fix channel flange **F** using No.8 x 12mm countersunk screws using acoustic floor **D** - fixings must not penetrate through top board.
4. Connect pipework, laid to fall (hidden detail). Connection to stack should use a flexible pipe coupling to eliminate noise transference. Test for leaks. Provide temporary debris protection to inner channel.



5. Apply suitable primer to channel flange **F**.
6. Apply tanking membrane **G** to whole floor in accordance with manufacturer's instructions. Dress membrane over channel flange **F**.
7. Apply tile adhesive working carefully around channel. Lay the ceramic tiles **H**, working away from channel. Leave 8mm gap for grout or flexible sealant at edge of grating frame.
8. Complete all local work and remove temporary protection. Prime trap and fit grating.

Tiles in suspended concrete floor

1. Form hole **A** in concrete floor to receive shower channel body, trap and outflow pipework.
2. Set fishtail ties **B** on underside of channel to provide key with screed **C** and temporarily support all components to required finished floor level. Provide temporary debris protection to inner channel.
3. Lay screed **C** to 1:80 fall ensuring fishtail ties are fully keyed in.
4. Connect pipework **D**, laid to fall and test for leaks.
5. Inject fire retardant polyurethane expanding foam **E** into void around drain body, trap and pipework to provide additional support.
6. Apply suitable primer to channel flange **F**.

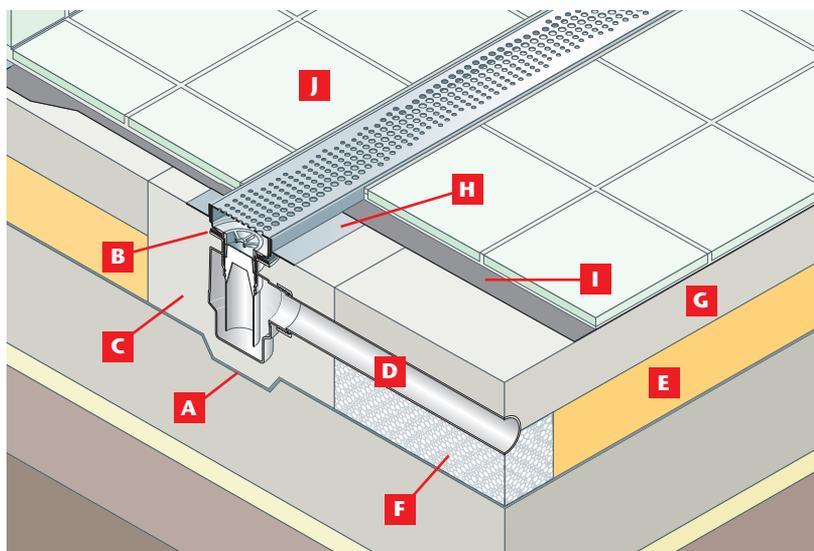


7. Apply tanking membrane **G** to whole floor screed in accordance with manufacturer's instructions. Dress membrane over channel flange **F**.
8. Apply tile adhesive working carefully around the channel. Lay ceramic tiles **H** working away from channel. Leave 8mm gap for grout or flexible sealant at edge of grating frame.
9. Complete all local work and remove temporary protection. Prime trap and fit grating.

ACO channel systems

Tiles in ground floor

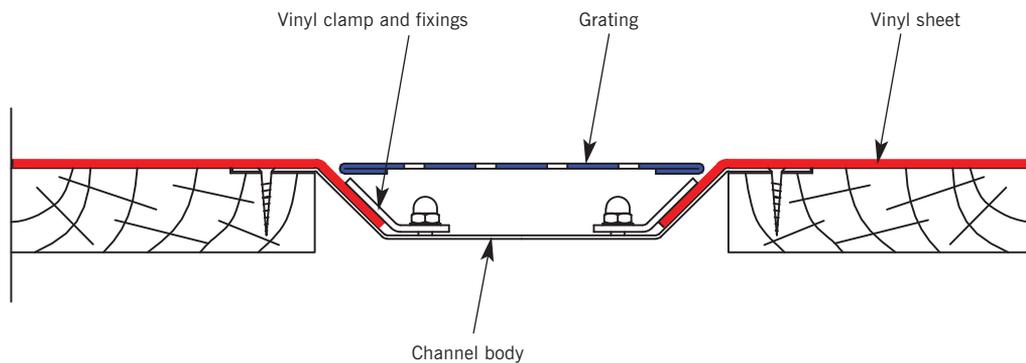
1. Form recess in slab to accommodate trap prior to laying DPM **A**. Lay DPM.
2. Set fishtail ties **B** to provide key with concrete backfill **C**. Temporarily support all components to required finished floor level.
3. Connect pipework **D** to fall, discharging to back inlet gully and test for leaks. Provide temporary debris protection to inner channel.
4. Box out and backfill concrete **C** around trap and channel ensuring fishtails are fully keyed-in.
5. Remove shutters and lay insulation **E** forming 20mm duct **F** around pipe to receive polystyrene bead fill.
6. Lay screed **G** to 1:80 fall.



7. Apply suitable primer to channel flange **H**.
8. Apply tanking membrane **I** to whole floor screed in accordance with manufacturer's instructions. Dress membrane over channel flange **H**.
9. Apply tile adhesive working carefully around the channel. Lay ceramic tiles **J** working away from channel. Leave 8mm gap for grout or flexible sealant at edge of grating frame.
10. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

Shower channel installation detail – vinyl flooring

- Adequate falls (1:80 generally) to the channel are required to remove water reliably from the wetroom. Remove grating and vinyl clamp from the channel body.
- **For timber floor installations**, assess floor joist direction and locations and waste pipe run requirements to identify optimal channel location. Cut floor to provide suitable aperture to accept the channel body and rebate the floor to allow channel flange to sit flush with the surface of the floor to prevent pressure points in vinyl flooring.
- Depending on floor construction and waste pipe run, attach foul air trap to channel body and 40mm waste pipe connection and test for leaks. Secure channel to the floor using suitable countersunk screws. Grout screw heads flush to prevent pressure points in vinyl flooring.
- **For concrete/screed installations**, connect foul air trap and 40mm waste pipe connections and test for leaks. Bed the channel on suitable mortar to the required floor level ensuring the screed anchors are extended and twisted to provide a positive key. Screed the surrounding floor providing falls to the channel as required. Grout flange fixing holes flush to prevent pressure points in vinyl flooring.
- Cut coving to required size as appropriate and apply adhesive to manufacturer's instructions and install coving against walls in usual manner.
- Cut vinyl sheet oversize for area. Apply adhesive to the floor, coving, walls, Shower Channel clamped areas as shown to manufacturer's instructions and lay the vinyl sheet in position covering the channel. **DO NOT** apply adhesive to the removable clamp or the channel base.
- Make a longitudinal cut in the vinyl covering the void over the channel to allow the vinyl to be dressed into the clamped areas of the channel taking care not to cut the area near the clamped areas.
- Dress the vinyl into the channel flanks. **DO NOT** cut the vinyl to accommodate the internal radii of the channel. The use of an evenly applied hot-air gun over the surface of the vinyl adjacent to the clamp to soften the vinyl may be required if the ambient temperature is too low. Apply the stainless steel clamp and tighten evenly using the fixings provided.
- Complete the installation to the coving as required.
- Finally, clean the area with brush and vacuum cleaner. Fit the grating.
- Cover the area with thin plywood or stiff cardboard and apply weights on the plywood overnight until the adhesive cures to ensure the vinyl flooring does not ride up out of position.



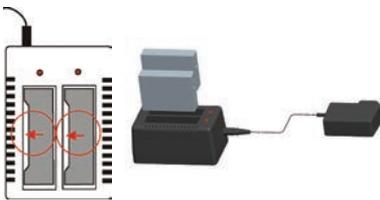
ACO Lightline

Product description

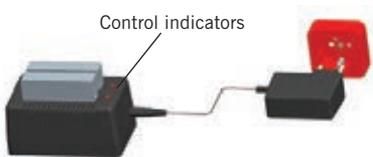
ACO Lightline comprises two low voltage battery operated LED illumination modules which fit directly into the ACO Shower Channel grating. The modules illuminate automatically when in contact with water and switch off after approximately 2 minutes when the shower is switched off.

Charging the LED modules

The LED modules must be fully charged before installation for the first time. Ensure the LED units are clean and dry and insert into the charger as shown below. Note the LED module profile orientation to fit correctly into the charger.



Connect the mains adaptor to the charger and switch on the power. The control indicators will begin to flash. The charging process can take up to 18 hours to complete. The charging is complete when the control indicators stop flashing and remain continuously illuminated.



Note

The indicators will flash quickly if the energy level in the LED module is low. If the indicators continue to flash quickly for more than 1 hour, then the LED module is defective and should be replaced.

Under normal conditions and use, fully charged LED modules should last approximately 3 months between charges.

For optimum performance, keep the LED modules fully charged to preserve their working life.

Installing the LED modules

- 1 Remove the grating from the Shower Channel.



- 2 Remove the grating plastic friction locks from both ends of the grating and insert the LED modules ensuring the LED's are facing **towards the centre** of the grating and that the slightly angled face of the module is **uppermost** in the grating to allow water to drain freely.



- 3 Secure the LED modules in the grating using the plastic fixing plugs supplied with the modules.



- 4 Replace grating.



Maintenance

Before re-charging the LED modules, use clean water to ensure each unit is thoroughly clean and then fully dry each unit before insertion into the charging unit.

Important

The charger unit supplied must only be used to charge the ACO Lightline LED modules. Do not re-charge other battery systems using the charger otherwise damage may occur.

ACO wetroom former installation – wooden floors



Step 1. Confirm that the shower head flow rate does not exceed 0.6 l/s (36 l/min). Identify former location and remove floorboards. Assess requirements for surrounding finished floor levels taking into account any replacement floor board thickness or over-boarding requirements.



Step 2a. Check joist levels are flat and adjust with shims if necessary making allowances. **This is most important as falls on former are shallow for user safety trip reasons.**



Step 2b. Check joist levels and flat both ways and adjust with shims if necessary. **This is most important as falls on former are shallow for user safety trip reasons.**



Step 3. Decide former orientation for optimum waste connection and falls. Any 90° rotation combination is possible.



Step 4. Assess for potential joist obstructions to channel body.



Step 5. Trim up to 50mm from any former edge to avoid joist/obstructions if necessary.



Step 6. Final check for former, channel location, waste run and final check of levels for falls to channel. Run a continuous bead of silicone sealant between channel body and former. Drill 3.2mm dia pilot holes 10mm deep max & fix channel body to former using the 8 No 8 x 12mm self-tap screws provided. Do not extend concrete anchor tangs.



Step 7. Valley cut tiles to visible raised channel corners as required. See Figure A overleaf. Remove tiles for safe storage.



Step 8. Attach suitable battens to joists to accommodate flush fitting floor supports.



Step 9. Cut loose fit floor supports flush to joist top - needed to prevent surrounding floor deflections.



Step 10. Connect waste pipe & test for leaks. Connect electrical earth/equi-potential bonding connections to the M8 stud provided if required.

Provide former floor support adjacent to wall for additional security.



Step 11. Slide in floor supports. Do not force past waste pipe or stops moulded on underside of former. Secure former to joists using Ø5 x 50mm countersunk screws on 150mm centres on each joist ensuring former underside is flat and horizontal when installed. Final check on falls to channel See Fig B overleaf.



Step 12. Replace floor boards to former and secure. Lightly abrade former upper surface with 120 grit sand paper to aid tanking bonding.



Step 13. Apply tanking tape, primer and liquid membrane to all joints and surfaces to manufacturers' instructions.



Step 14. Bed tiles on a suitable solid flexible tile adhesive – not notched - checking falls to channel. Use a flexible grout. Ensure channel top is 1 to 2mm below surrounding tiled surface.



Step 15. Complete wetroom installation.

ACO wetroom former installation – screed floors

1. Confirm former location, orientation and optimum waste pipe run direction and associated falls to soil and vent pipe.
2. Run a continuous bead of silicone sealant between channel body and former. Locate channel body into former and drill 8 Ø3.2mm pilot holes 10mm deep maximum & fix channel body to former using the 8 No 8 x 12mm self-tap screws provided.
3. Connect waste pipe using connector supplied and test for leaks. Extend concrete anchor tangs on underside of channel to ensure positive key to concrete/screed.
4. Connect electrical earth/equi-potential bonding connections to the M8 stud provided if required
5. Prepare appropriate floor screed and bed the assembled former into position ensuring it is evenly supported taking into account the finished floor level and ensuring the outer uppermost edges of the former are horizontal to ensure water will drain to the channel via the pre-sloped falls in the former. Allow screed to cure.
6. Valley cut tiles to **visible** channel corners on former as required. See Figure A below. Remove tiles for safe storage.
7. Lightly abrade former upper surface with 120 grit sand paper to aid tanking bonding. Apply tanking tape, primer and liquid membrane to all joints and surfaces to manufacturers' instructions.
8. Apply tiles using suitable flexible tile adhesive ensuring adequate falls to channel – see Figure B below. Ensure channel top is 1 to 2mm below surrounding tiled surface. Grout tiles and complete the wetroom installation.

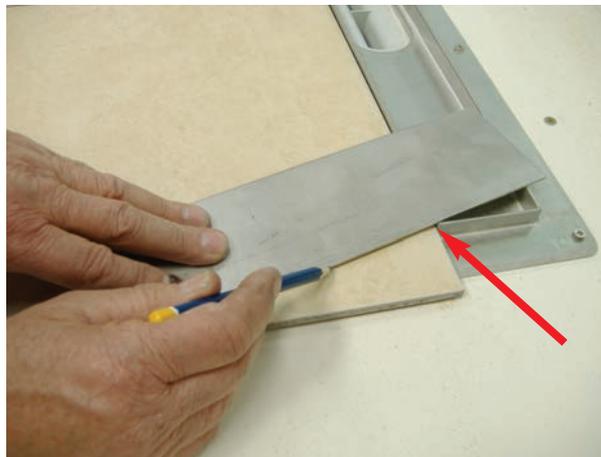
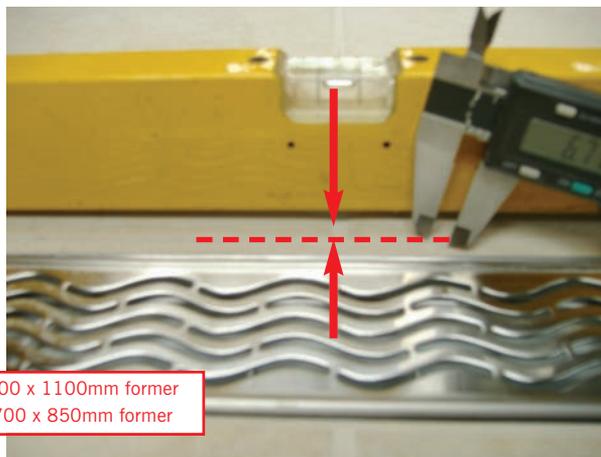
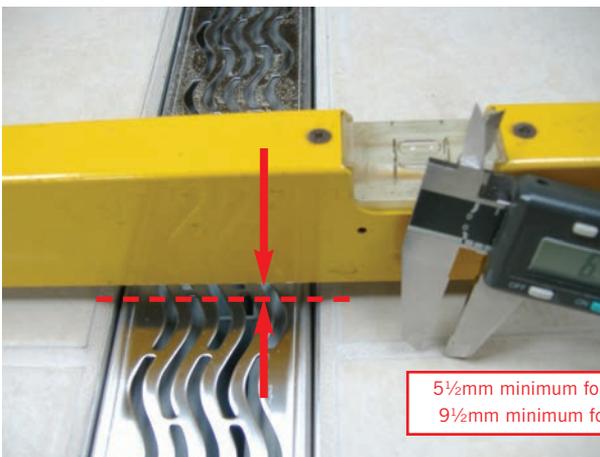


Figure A. Cutting tiles to **visible** channel corner - allow for grout width



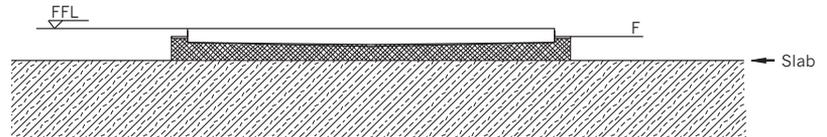
5½mm minimum for 1100 x 1100mm former
9½mm minimum for 1700 x 850mm former

Figure B. Checking falls to channel – **both ways**

ACO walk-in solution

Installation

- Bed walk-in stainless steel tray on a suitable mortar to finished floor level (FFL).
- Weigh down the tray to prevent from lifting or floating and screed to upper edge F.
- After the screed has cured, apply a suitable tanking material such as *weber.sys protect*, see page 16 for details to provide a fully waterproof installations.
- Bed tiles using a suitable tile adhesive and grout to complete the installation.



ACO shower gully systems

Servicing of foul air trap:-

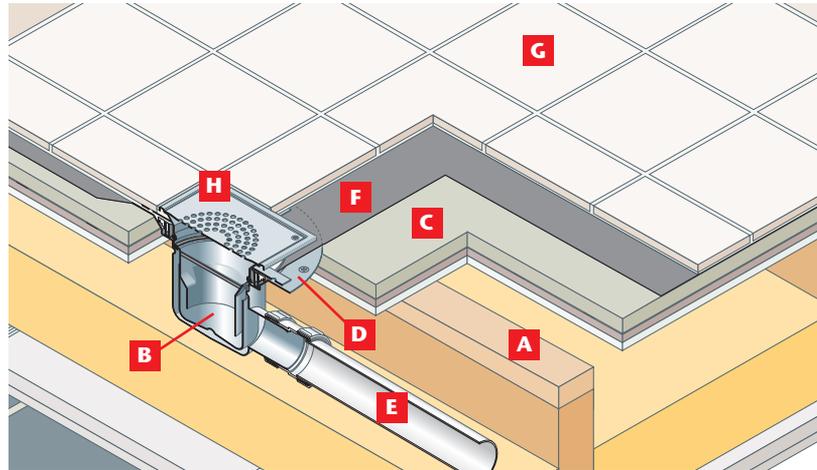


1. Remove crosshead screws from grating. Using appropriate gloves, grip the crossbar of the foul air trap and pull upwards making sure that the rubber sealing ring does not dislocate and fall into the drain. Remove sealing ring. Clean foul air trap thoroughly with soapy water.
2. Lubricate the sealing ring with petroleum jelly and carefully locate the ring back onto the foul air trap. Lubricate the gully body in the area where the sealing ring will locate. Push the foul air trap firmly into position making sure that the trap seats squarely and that the sealing ring remains in position. Replace grating and tighten until resistance is felt.

ACO shower gully systems

Tiles in joisted acoustic floor

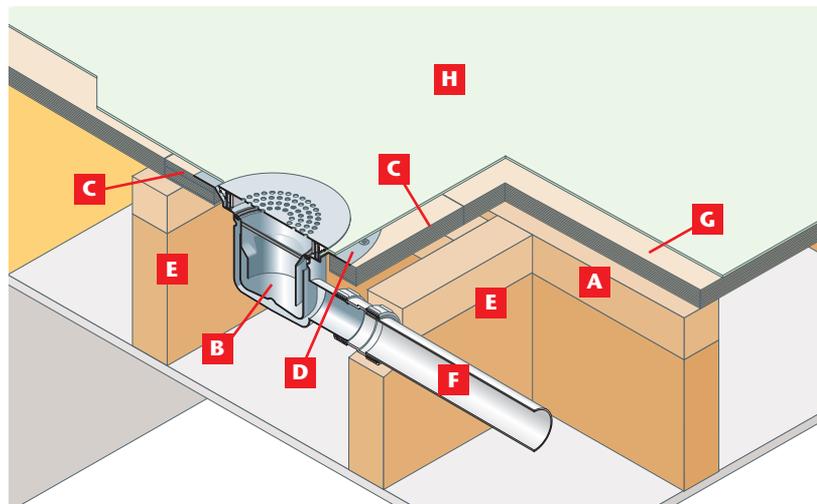
1. Where alterations to joists are necessary consult Structural Engineer for advice and reinforce joists as advised. Cut firrings **A** to 1:80 fall in four directions towards gully **B**.
2. Lay acoustic over-floor **C** in accordance with manufacturer's instructions, cut circular hole to fully support flange **D** and location of drain body. Rebate flange, bond and fix using non ferrous No.8 x 12mm screws - fixings must not penetrate through acoustic top board. Provide temporary debris protection to inner drain.
3. Connect pipework **E**, laid to fall, using coupling provided. (Connection to stack should use a flexible pipe coupling to eliminate noise transference). Test for leaks.
4. Apply primer to drain flange **D**.



5. Apply tanking membrane **F** to whole floor in accordance with manufacturer's instructions. Dress membrane over drain flange **D** and fix clamp ring, ensuring tanking membrane is securely clamped.
6. Adjust grating frame **H** to finished floor level and protect grating for duration of building work.
7. Apply tile adhesive working carefully around the drain. Lay the ceramic tiles **G** working away from drain. Leave 8mm gap for grout or flexible sealant at edge of grating frame.
8. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

Vinyl in joisted floor

1. Where alterations to joists are necessary consult Structural Engineer for advice and reinforce joists as advised. Cut firrings **A** to 1:80 fall in four directions towards gully **B**.
2. Cut a square marine plywood panel **C** to joist centres. Form rebated circular hole to fully support drain flange **D** and location of drain body. Bond and screw fix using non ferrous screws. Fill the screw heads flush with flange. Provide temporary debris protection to inner drain.
3. Support butt joints between plywood panel and plywood decking with blocking and battens **E** to full joist depth finishing flush with top of firrings. Fully screw fit plywood panel **C**.
4. Connect pipework **F**, laid to fall, using coupling provided and test for leaks.

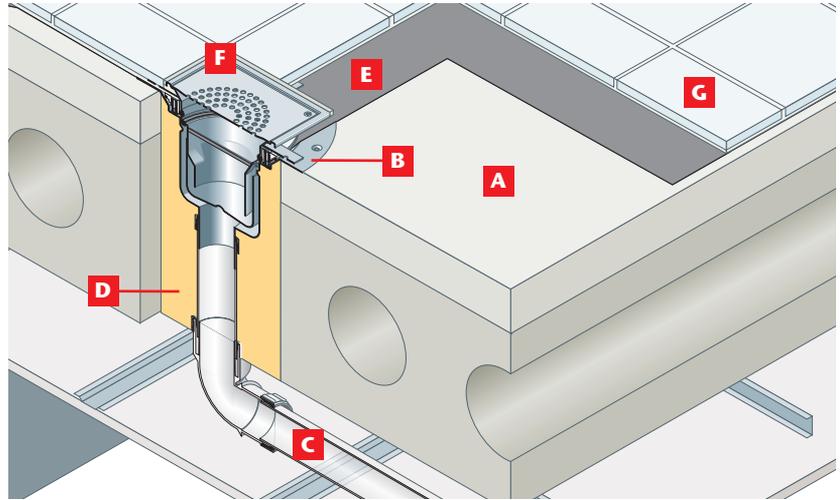


5. Lay 18-22mm marine plywood decking **G** on firrings **A** and butt joint to plywood panel **C**.
6. Lay and bond vinyl sheet flooring **H** over drain flange **D**. Fix clamping ring (hidden detail) ensuring vinyl sheet flooring is securely clamped.
7. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

ACO shower gully systems

Tiles in suspended concrete floor

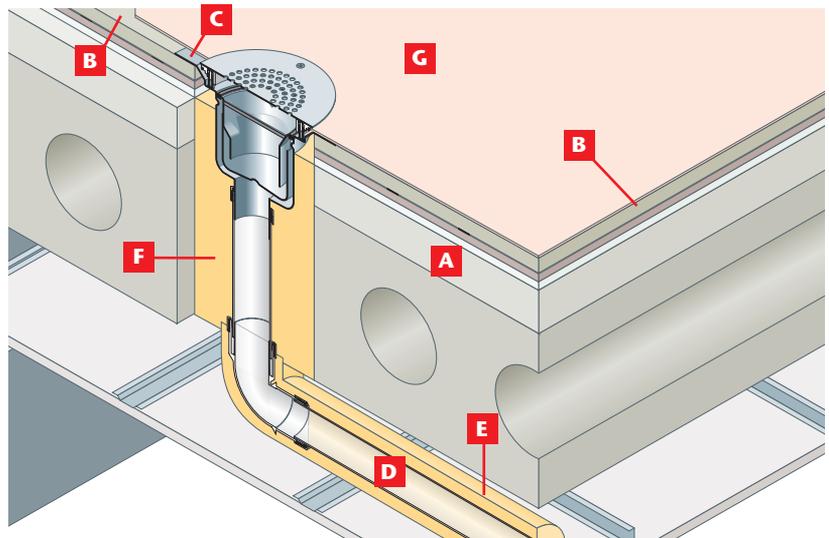
1. Lay screed **A** to 1:80 fall over structural floor and cast or core drill circular hole through screed and concrete floor.
2. Position drain body in hole and bond drain flange **B** to screed. Provide temporary debris protection to inner drain.
3. Connect pipework **C**, laid to fall, using coupling provided and test for leaks.
4. Inject expanding fire retardant polyurethane foam **D** into void around drain body and pipework to provide additional support.
5. Apply primer to drain flange **B**.
6. Apply tanking membrane **E** to whole floor in accordance with manufacturer's instructions. Dress membrane over drain flange **B** and fix clamp ring, ensuring tanking membrane is securely clamped.



7. Adjust grating frame **F** to finished floor level and protect for duration of work.
8. Apply tile adhesive working carefully around the drain. Lay the ceramic tiles **G**, working away from drain. Leave 8mm gap for grout or flexible sealant at edge of grating frame. Fit and prime trap. Fit grating.

Vinyl in suspended concrete acoustic floor

1. Lay screed **A** to 1:80 fall over structural floor and cast or core drill circular hole through screed and concrete floor.
2. Lay acoustic overfloor **B** in accordance with manufacturer's instructions and cut a circular hole centred over the hole through concrete floor slab/screed.
3. Locate drain body in hole, countersink flange **C**, bond and fix using No.8 x 12mm screws - fixings must not penetrate through top board. Fill screw heads flush with compression flange and provide temporary debris protection to inner drain.
4. Connect pipework **D**, laid to fall, using coupling provided. (Connection to stack should use a flexible coupling to eliminate noise transference). Test for leaks.

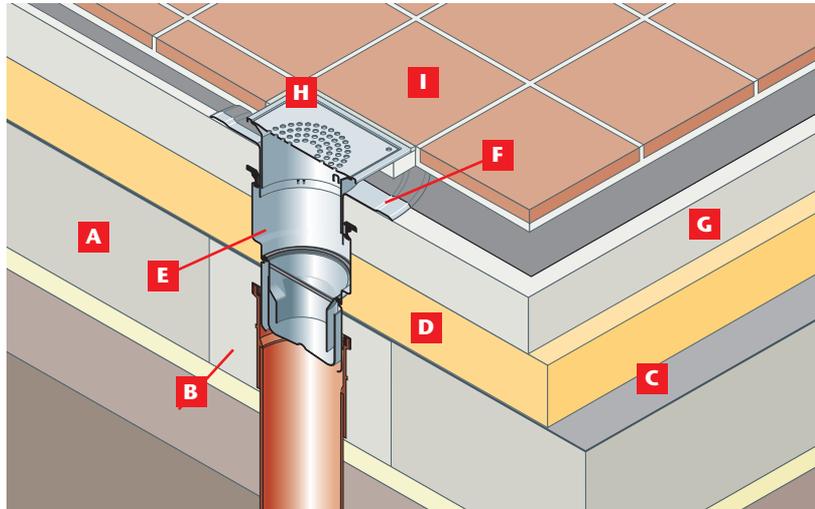


5. Fit slit insulation **E** around pipework for acoustic purposes. Inject expanding fire retardant polyurethane foam **F** into hole around drain body and pipework to provide additional support, taking care not to bridge acoustic floor system.
6. Lay and bond vinyl sheet flooring **G** over drain flange **C**. Fix clamping ring (hidden detail) ensuring that vinyl sheet flooring is securely clamped.
7. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

ACO shower gully systems

Tiles in ground floor

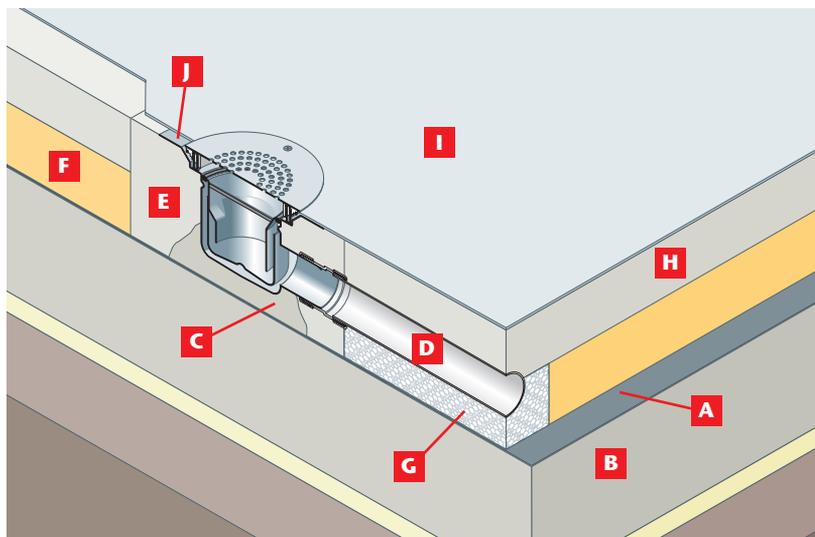
1. Box out around drain pipe and cast concrete floor slab **A**.
2. Remove shuttering and connect drain body to pipe. Test pipework for leaks and provide temporary debris protection to inner drain. Backfill concrete **B** around drain body.
3. Lay DPM **C** over floor slab and seal to drain body. Lay insulation **D** and fit around drain body **E**. Remove temporary protection and push fit tanking flange **F** into seal within drain body. Adjust to required screed height and replace temporary protection.
4. Lay screed **G** to 1:80 fall.
5. Remove temporary protection, push fit grating frame **H** into tanking flange **F** and adjust to finished floor level. Provide temporary protection for duration of building works.



6. Apply tanking membrane to whole floor in accordance with manufacturer's instructions. Dress membrane over tanking flange **F** and around bezel.
7. Apply tile adhesive working carefully around drain. Lay quarry tiles **I**, working away from drain. Leave 8mm gap for grout or flexible sealant at edge of grating frame.
8. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

Vinyl in ground floor

1. Lay DPM **A**, over floor slab **B** and sit drain body onto mortar bed **C** to finished floor level.
2. Connect pipework **D**, laid to fall, using coupling provided. Discharge to back inlet gully and test for leaks. Provide temporary debris protection to inner drain.
3. Box out and backfill concrete **E** around the drain body.
4. Remove shutters and lay insulation **F** forming 20mm duct **G** around pipe to receive polystyrene bead fill.
5. Lay screed **H** to 1:80 fall.
6. Lay and bond vinyl sheet flooring **I** over drain flange **J**. Fix clamping ring ensuring vinyl sheet flooring is securely clamped.



7. Complete all local work and remove temporary protection. Fit and prime trap. Fit grating.

ACO Easyflow

Installation guide - timber floors

Installation overview

For all timber floor installations, the Easyflow gully top is supported in a stainless steel cradle.

It is **essential** that the plastic gully body is supported between the floor joists to prevent accidental disassembly during routine maintenance. This applies to all outlet configurations.

For installations with a horizontal outlet, the location of the outlet should be as high as possible in the floor to provide adequate falls from the waste pipe to the soil stack. This is identified as the minimum 'X' dimension as shown in the diagram below.

Step 1

Remove floor boards to expose joists in wetroom area.

Step 2

Identify waste pipe run and position of the gully.

Step 3

Assess the highest position of the outlet invert (minimum 'X'), taking into account the thickness of the floor board and outlet waste pipe diameter. With reference to the diagram below, trim the gully top using the cutting guide lines to keep dimension 'X' as short as possible to provide falls for the waste pipe.

Step 4

Having cut the gully top, provide a support platform so that the gully body base sits firmly on the support shelf when in the installed position. This ensures the seal between the gully top and gully body is not broken during routine maintenance.

Step 5

Cut a 255mm diameter hole in the floor board to align with the gully body. Lay the floor board and fix the cradle to the floor.

Step 6

Connect the waste pipe to the gully body and insert the trimmed down gully top into the cradle ensuring the gully top is **fully** inserted into the gully body seal. Ensure the base of the gully body is resting on the support shelf and waste pipe laid to fall. Test for leaks. If the installation is not going to be completed at this stage, insert the white gully top cover to prevent unwanted debris entering the gully.

Step 7

Lay the grey wetroom waterproofing fleece into the gully top and secure with the clamp ring and x5 self-tapping screws provided to form a watertight seal.

Step 8

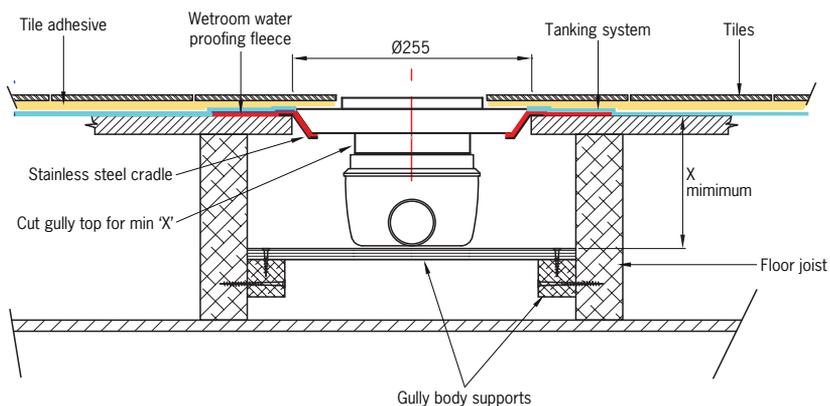
Depending upon the installation, provide the falls to the gully. This may be achieved using *weber.floor 4040 Combi Rapid* levelling scrim, tel 08703 330070 for further details.

Step 9

Tank the installation including the wetroom waterproofing fleece using a proprietary tanking system, following the manufacturer's installation instructions. One system that may be used is *weber.sys protect* roller or brush applied tanking membrane. Part no. 105617.

Step 10

Lay the grating bezel support ring in the gully top ensuring the radial slots face **downwards** to allow any water that penetrates the tile adhesive to enter the gully. Insert the bezel and align to suit tile layout and lay tiles with falls to gully. For tiles greater than 20mm thick, gully top spacer ring(s) (Part No 105738) provides additional 6.5mm height and may be used in multiples.



ACO Easyflow

Installation guide - solid concrete floors

Installation overview

Easyflow floor gully bodies can be installed either above or below the DPM. The optional DPM clamping flange (Part No 105737) is required to clamp the DPM to the throat of the gully body where the gully body is below the DPM.

Gully tops are easily trimmed to finished floor level using the cutting guides moulded into the top to accommodate screed and insulation thicknesses. An optional gully top extension (Part No 105736) is required for extended screed/insulation thicknesses.

For wetroom applications, gully tops with integrated wetroom fleece can be used for additional waterproofing security.

Step 1

Lay DPM over floor slab and sit gully body on to mortar bed.

Step 2

Trim gully top to finished floor level and insert into gully body, ensuring the gully top is **fully** inserted into the gully body seal.

Step 3

Connect waste pipe laid to fall and test for leaks. Provide temporary cover to prevent unwanted debris entering the gully.

Step 4

Box out and backfill concrete around the gully body and top.

Step 5

Remove shutters and lay insulation forming a duct to receive polystyrene bead fill.

Step 6

Lay screed to 1:80 fall.

Step 7

If a wetroom gully top is not installed, lay tiles. For the wetroom gully top, lay the grey wetroom waterproofing fleece into the gully top and secure with the clamp ring and x5 self-tapping screws provided to form a watertight seal.

Step 8

Tank the installation including the wetroom waterproofing fleece using a proprietary tanking system, following the manufacturer's installation instructions. One system that may be used is *weber.sys* protect roller or brush applied tanking membrane. Part no. 105617.

Step 9

Lay the grating bezel support ring in the gully top ensuring the radial slots face **downwards** to allow any water that penetrates the tile adhesive to enter the gully. Insert the bezel and align to suit tile layout and lay tiles with falls to gully. For tiles greater than 20mm thick, gully top spacer ring(s) (Part No 105738) provides additional 6.5mm height and may be used in multiples.



ACO Lightpoint

Product description

The ACO Lightpoint illumination system for ACO Easyflow gullies consists of one battery operated LED module and a charging device. The LED module is mounted in the top section of ACO Easyflow gullies.

When water enters the gully, the module is activated automatically and illuminates for a maximum of 15 minutes.

If the shower water inflow stops after less than 15 minutes, the module still illuminates for a period of approximately two minutes before the module switches off automatically.

Charging process prior to initial use

Prior to initial use, the LED module must be fully charged. This process may take up to 18 hours. Ensure the metal contacts of the LED module are free from dust, dirt and moisture.

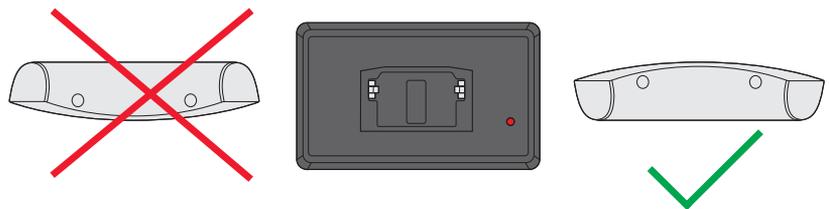
Charging process during use

Depending on frequency of use, the LED module must be recharged every three months. Before the LED module is inserted in the charging device, it has to be cleaned with warm water and completely dry. The metal contacts of the LED module must be free from dust, dirt and soap residues.



Inserting the LED module in the charger

Each LED module leg must be charged using the charging device. Ensure that the module is correctly inserted. See below.

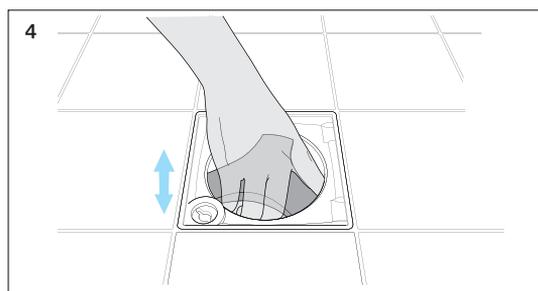
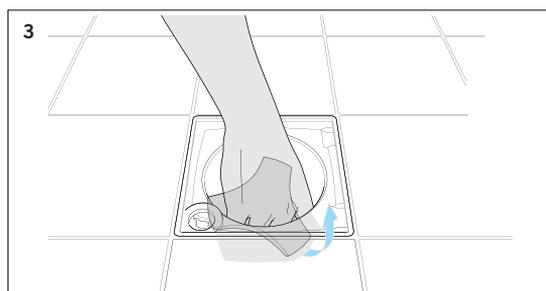
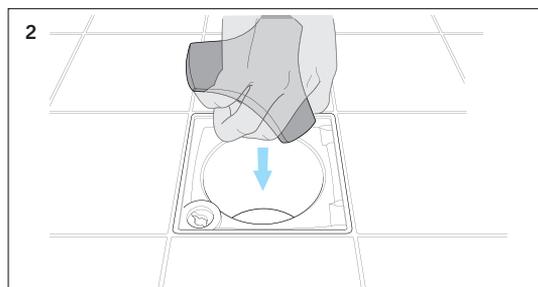
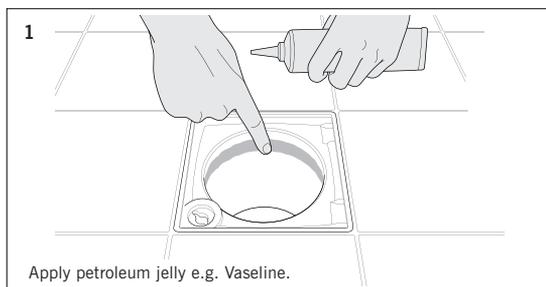


Control lamps at the charging device

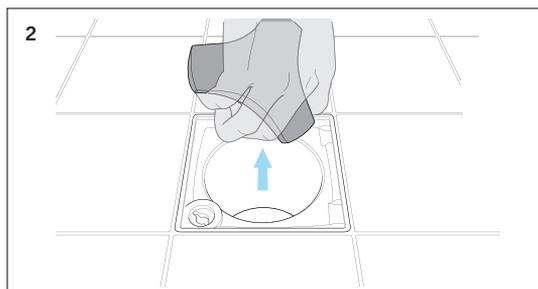
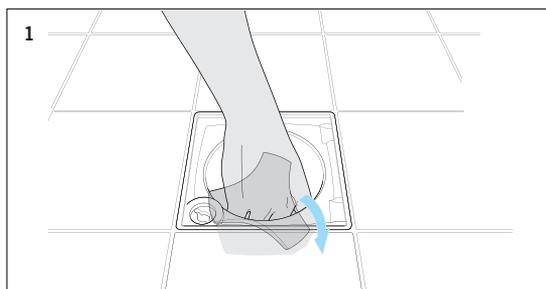
Charging lamps' state	Meaning
Normal blinking	Charging of LED modules takes place.
Rapid blinking	Very low battery voltage or damaged. The charging device nevertheless tries to recharge this LED module. If, during the charging process, the charging device does not switch over to slow blinking (normal charging) within one hour, the LED module is defective and may no longer be used.
Permanent lighting	Charging process for module leg complete.

ACO Lightpoint

Installation of ACO Lightpoint



Removal of ACO Lightpoint



Standard specification clause:

Shower channel, shower gully

A range of Stainless Steel Shower Channels and Shower Gullies consisting of free standing gullies with gratings and linear drainage channels with gratings. Suitable for point drainage and linear drainage in wet rooms, changing rooms and showers.

- Manufacturer:** ACO Building Drainage
 ACO Business Centre, Caxton Road, Bedford, Bedfordshire MK41 0LF
 Tel: 01462 816666 Fax: 01462 851490
 Email: abinfo@aco.co.uk
- Material:** Stainless Steel Grade 304 pickle passivated for hygiene and corrosion resistance.
- Product:** ACO Shower Channel, flow rate 0.4 l/s. Load class K3 to BS EN 1253
 ACO ShowerDrain C, flow rate 0.95 l/s. Load class K3 to BS EN 1253
 ACO Shower Gully, flow rate 1.2 l/s. Load class K3 to BS EN 1253
- Literature:** Consult ACO Building Drainage technical literature for details.
- Link to Web:** www.acobd.co.uk
- Design:** ACO Technical Services provide design and specification.

Standard specification clause:

Shower channel, shower gully

Shower channel

Description: Shower Channel Load class K3 to BS EN 1253.

Function: Light duty channel drain for tiled or vinyl covered floors in wet room, shower and washdown areas.

Type of Floor: Solid ground floor. Joisted timber and suspended concrete floors.

Material: Stainless Steel Grade 304.

Options: Interchangeable grating varieties.

Type of Body: Standard range in 5 lengths c/w 40mm Ø trapped outlet. Fixed invert with “V” sump. Flow rate 0.4 l/s.

Type of Grate: Standard range of 6 designs in 5 lengths Stainless Steel grade 304.

ShowerDrain C

Description: ShowerDrain C Load class K3 to BS EN 1253.

Function: Light duty channel drain for tiled floors in wet room, shower and washdown areas.

Type of Floor: Solid ground floor. Joisted timber and suspended concrete floors.

Material: Stainless Steel Grade 304.

Options: Interchangeable grating varieties.

Type of Body: Standard range in 7 lengths c/w 50mm Ø trapped outlet. Fixed invert with “V” sump. Flow rate 0.95 l/s.

Type of Grate: Standard range of 5 designs in 7 lengths Stainless Steel grade 304.

Shower gully

Description: Shower Gully Load class K3 to BS EN 1253.

Function: Light duty point drain for tiled or vinyl covered floors in wet room, shower and washdown areas.

Type of Floor: Solid ground floor. Joisted timber and suspended concrete floors.

Material: Stainless Steel Grade 304.

Options: Slip resistant gratings.

Type of Body: 40mm Ø spigot outlet gully c/w foul air trap. Vertical and Horizontal spigot outlet fixed invert. Flow rate 1.2 l/s.

Type of Grate: Square or Circular - perforated Stainless Steel grade 304.

NBS specification clause reference:

ACO Shower Channel & ShowerDrain C - For relevant NBS Specification, refer to NBS section for FLOOR DRAINS relating to clause 310 FLOOR CHANNELS in R11 Above Ground Foul Drainage Systems.

ACO Shower Gully - For relevant NBS Specification, refer to NBS section for FLOOR DRAINS relating to clause 315 FLOOR DRAINS and clause 05 FLOOR DRAINS in R11 Above Ground Foul Drainage Systems.

ACO Easyflow bathroom gully system

A range of austenitic stainless steel drainage gullies and accessories

Suitable for point drainage in domestic properties, leisure facilities, spas, showers, wet rooms and washdown areas.

Manufacturer: ACO Building Drainage, ACO Business Centre, Caxton Road, Bedford, Bedfordshire UK. MK41 0LF. Tel: 01462 816666, Fax: 01462 851490. Email: abinfo@aco.co.uk

Material: Electro-polished grade 304 austenitic stainless steel gratings to BS EN 10088. Gully tops and body manufactured from ABS and polypropylene.

Product: ACO Easyflow drainage system to BS EN 1253 Load Class K3. Wetroom gully tops complete with polypropylene fleece.

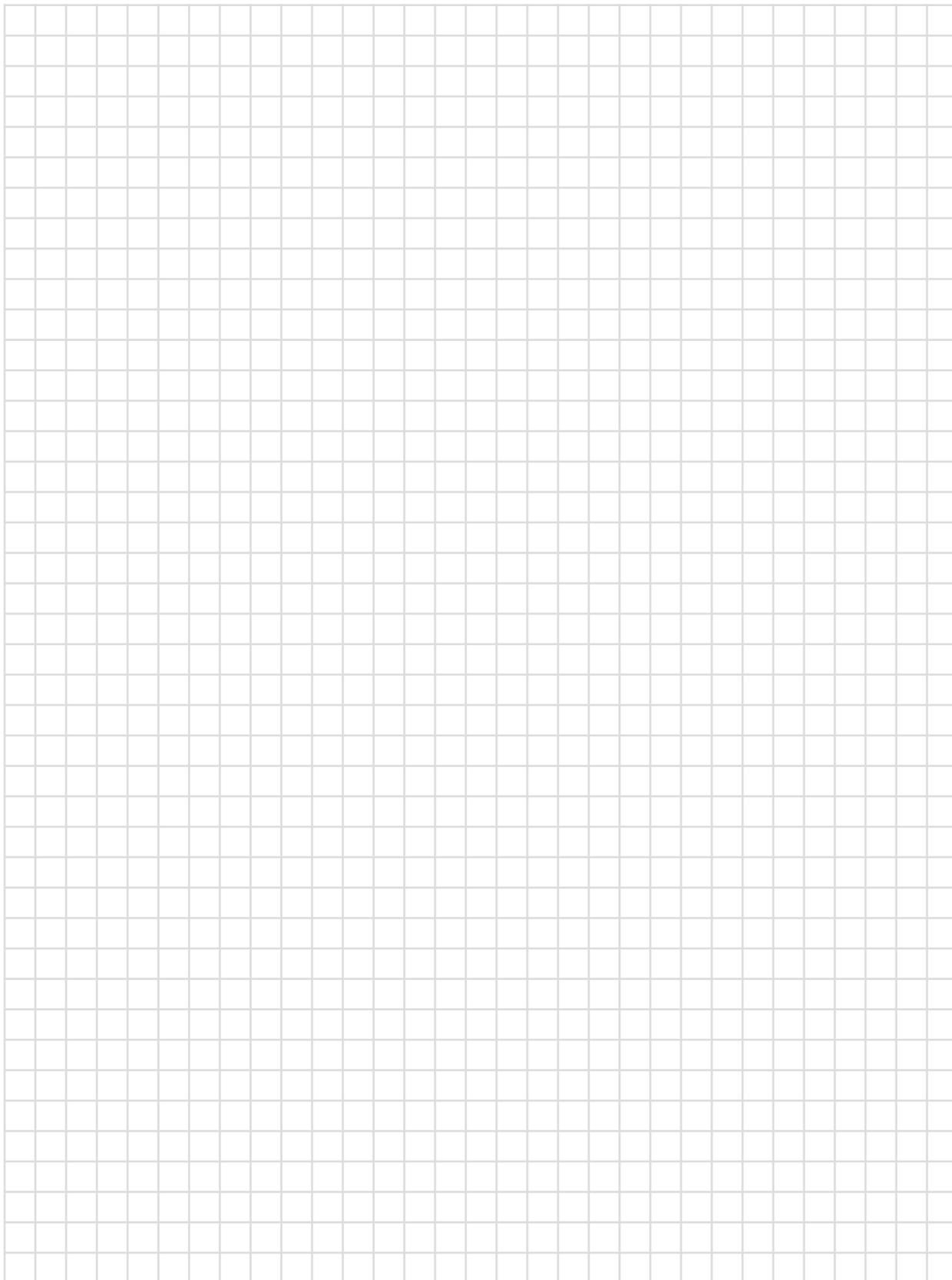
Literature: Consult ACO Building Drainage technical literature for details.

Website: www.acobd.co.uk

Design: ACO Building Drainage Technical Services provide design and specification.



Notes



ACO Technologies plc

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



ACO Building Drainage

A division of ACO Technologies plc
ACO Business Centre
Caxton Road
Bedford
Bedfordshire
MK41 0LF
Tel: 01462 816666
Fax: 01462 851490

e-mail: abinfo@aco.co.uk
www.acobd.co.uk

The ACO Group: A strong family you can depend on.

© November 2012 ACO Technologies plc. All reasonable care has been taken in compiling the information in this document. All recommendations and suggestions on the use of ACO products are made without guarantee since the conditions of use are beyond the control of the Company. It is the customer's responsibility to ensure that each product is fit for its intended purpose, and that the actual conditions of use are suitable. This brochure and any advice is provided by ACO Technologies plc (the Company) free of charge and accordingly on terms that no liability including liability for negligence will attach to the Company or its servants or agents arising out of or in connection with or in relation to this brochure or any such advice. Any goods supplied by the Company will be supplied solely upon its standard conditions of sale, copies of which are available on request. The Company's policy of continuous product development and improvement renders specifications liable to modification. Information provided in this brochure is therefore subject to change without prior notification.