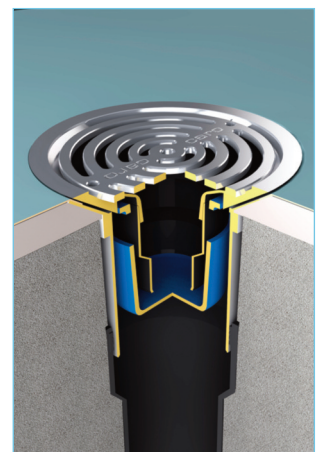


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CAROFLOW[®]

Floor Drainage Products



CAROFLOW Floor Drainage outlets are manufactured to the highest standards to give superb products that combine superior corrosion resistant materials with an aesthetically pleasing finish and the assurance of performance expected from all CARO products.

Trapped and Un-Trapped Floor Drains

Both body and clamp are manufactured in LM6 Aluminium alloy (silicon based, corrosion resistant) that is then pre-treated before being electrostatically powder coated and oven baked. Available with a large selection of Grating Options. (see page 8)



Trapped & Un-Trapped Floor Drains – pages 3, 4, 7, 9, 10

Advantage – Integrally Trapped Economic Drains

Designed to offer integrally trapped drainage, combined with superb quality, ease of use and lower costs. Available with a large selection of Grating Options. (see page 8)



Advantage – pages 5, 6, 10

Quality Stainless Steel Gratings

Extremely aesthetically pleasing grates, designed for use with all versions of the Trapped and Un-Trapped Floor Outlets and the range of ADVANTAGE Drains. Highest quality Stainless Steel material.



Grating Assemblies – page 8

CaroLoLine Shower Drains

CaroLoLine Shower Outlets are suitable for installation in sheet flooring or tiled floor finishes and provide an extremely aesthetic solution to the problem of robust metal trapped drainage from high performance shower units, within a very shallow void in which to install and drain from.



CaroLoLine – pages 11, 12, 13, 14

Caro Traditional Shower Drains

Also suitable for installation in sheet flooring or tiled floor finishes. Having been supplied and installed for many years they have a proven history of trapping and draining in a limited height situation.



Caro Traditional – pages 15, 16, 17

The CARO name has become familiar to most specifiers since 1985 and has established itself with quality products and economic pricing.

The formation of CAROFLOW LIMITED, with personnel having many years experience in the design and manufacture of roof and floor drainage products, enabled this accrued knowledge to be brought together and resulted in a comprehensive range of high quality, engineered outlets, that give added security to the problems of the safe and secure removal of water, both on and within today's higher specification buildings.

CAROFLOW is a BS EN ISO 9001:2008 Quality Assured company and as such is able to give complete confidence to the specifier.

The following pages detail the current range of CAROFLOW Floor Drain products, full dimensions, connection recommendations and some typical applications.

It cannot, however, show all the "specials" that have been produced over the years to suit certain specifier's requirements.

CAROFLOW, being part of the Caro Group of Companies, has access to it's own, in-group, UK production and is able to design and provide quick and easy solutions to awkward requirements

Should you have any problem where we can help or any questions that are not answered by this brochure, please contact the Caroflow Technical Enquiries Department by telephone, or in writing, at the address shown on the back cover.

A full selection of downloadable CAD and PDF drawings can be found on the Caroflow website (www.caroflow.co.uk)



ISO 9001:2008
GB 00227

Caroflow Limited maintains a policy of continual product development and improvement and, as such, retain the right to alter designs shown within this brochure. All reasonable care has been taken in preparing this information, but Caroflow Limited are unable to guarantee against actual working practices that are outside of their control.

Floor Drains

Trapped Floor Drains



Caroflow Trapped Floor Outlet body assemblies. Manufactured in electrostatically coated, pre-treated, LM6 Aluminium (Corrosion Resistant) Silicon alloy, all with stainless steel fixings. The integral trap, supplied with each body assembly, is designed to allow its overall height to be trimmed to suit the finished level. Each Body Assembly requires the specification of a separate Grating Assembly, as detailed on page 8.

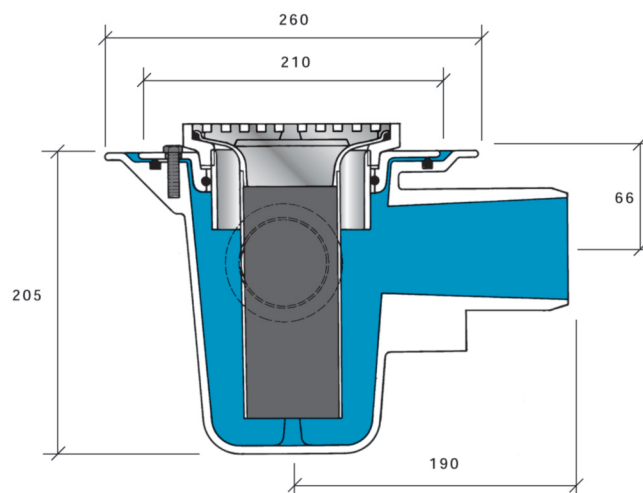
The clamping ring is manufactured with a small "weep" hole to allow any trapped water within the screed to drain into the outlet body. If pressure testing of the drainage system will be required, ensure that the plug supplied has been left in place to seal this "weep" hole. All floor outlet bodies will enable a perfect seal between the water/damp proofing membrane and the drainage pipework.

Connections

The Caroflow Trapped Floor Outlets are available with either a 45 degree spigot or a horizontal spigot take-off, with the option of two 50mm threaded side inlets. The TS/75 (45 degree spigot) and the THS/75 (horizontal spigot) are suitable for direct connection to 75mm nominal bore UPVC pipework (82mm O/D) with the THS/100 (horizontal spigot) being sized for direct connection to 100mm nominal bore UPVC pipework (110mm O/D). Adaptors, available from Caroflow, will allow for connection to all other sizes and types of pipework.

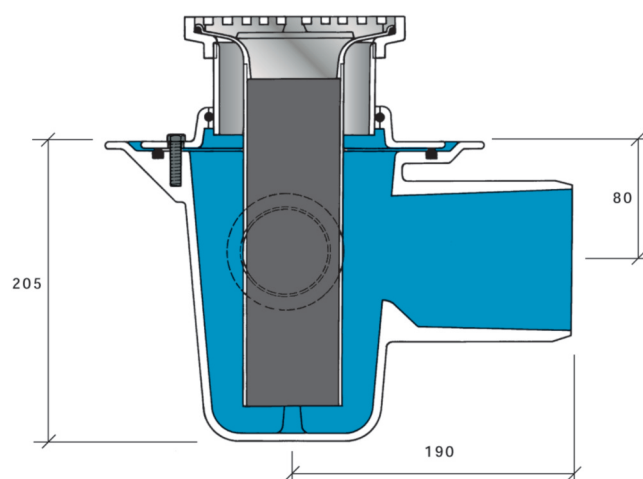
Example specification

CAROFLOW Trapped Floor Drainage Horizontal Outlet body assembly (Code THSA/100), for connection to 100mm nominal bore soil pipe and allowing for connection to 2 No. 50mm nominal bore waste pipes (elsewhere measured). To be used with 150mm square grate and bezel assembly with short spigot (Code FD/150S/SS) for installation within tiled floor finish (elsewhere measured), all as manufactured by Caroflow Limited Tel: 01763 244446.



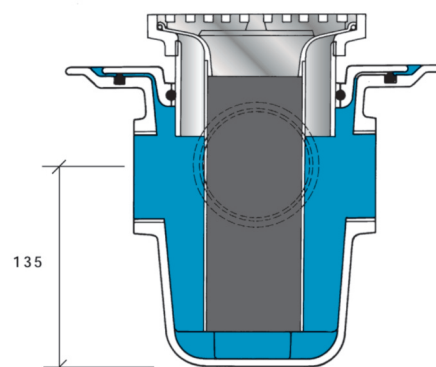
Trapped Horizontal 75mm Spigot (side elevation) **Code THS/75**

Shown with FD/SS/150C/SS – 150mm dia. S/Steel circular bezel with grate and short spigot in clamping ring, lower position. Optional side inlet position shown.



Trapped Horizontal 100mm Spigot (side elevation) **Code THS/100**

Shown with FD/SS/150S/SS – 150mm x 150mm S/Steel square bezel with grate and short spigot in clamping ring, higher position. Optional side inlet position shown.

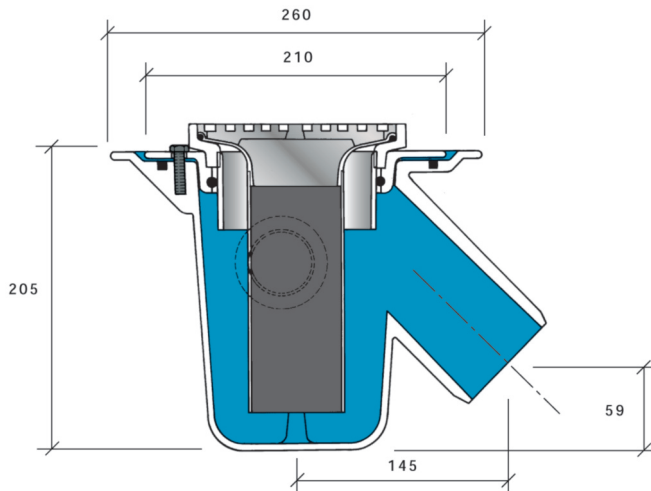


Trapped Horizontal 100mm Spigot (front elevation) with two side inlets. **Code THSA/100**

Shown with FD/SS/150C/SS – 150mm dia. S/Steel circular bezel with grate and short spigot in clamping ring, lower position.

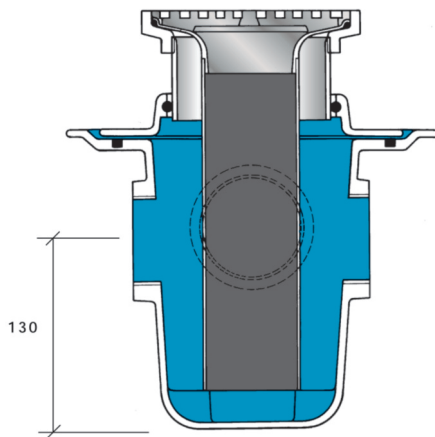
Floor Drains

Trapped Floor Drains



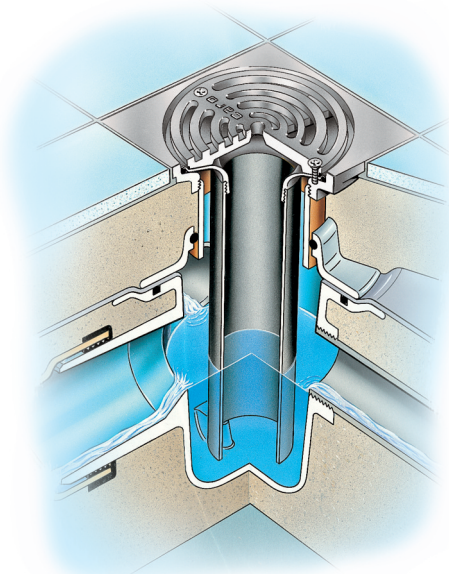
Trapped 45° Spigot (side elevation) Code TS/75

Shown with FD/SS/150S/SS – 150mm x 150mm S/Steel square bezel with grate and short spigot in clamping ring, lower position. Optional side inlet position shown.



Trapped 45° Spigot (front elevation) with two side inlets. Code TSA/75

Shown with FD/SS/150C/SS – 150mm dia. S/Steel circular bezel with grate and short spigot in clamping ring, higher position.



All drawings available as CAD on www.caroflow.co.uk

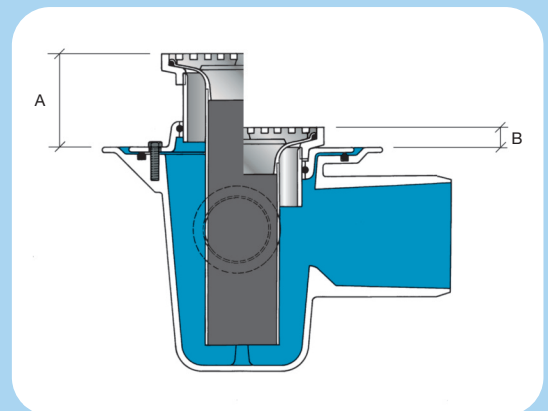
Height Adjustability

Both Un-trapped and Trapped Caroflow outlets make use of a reversible clamping ring to allow the waterproofing membrane to be sealed to the draining body of the outlet.

This design, originally introduced by Caroflow over 20 years ago, gives a totally flexible and fully adjustable combination of height and level to the grating assembly. This height and level variation is achieved with an inset O-Ring in the clamping ring mouth that grips and seals the throat of the grating assembly.



The throat is available in three standard lengths to allow for differing installation situations, although it is possible to produce in any length that is required, by special order.



Description/Code	Height Variation	
	High Position – A	Low Position – B
Short Spigot (/SS)	54 – 83 mm	17 – 49 mm
Medium Spigot (/MS)	83 – 138 mm	49 – 74 mm
Long Spigot (/LS)	138 – 238 mm	74 – 174 mm

Floor Drains

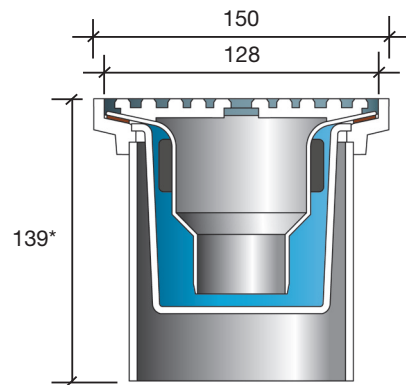
Advantage Trapped Grate Assemblies



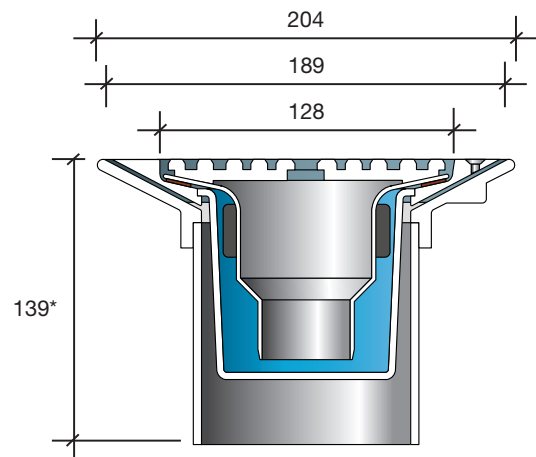
Designed to offer integrally trapped drainage combined with superb quality, ease of use and lower costs, the new Caroflow ADVANTAGE Grating Assemblies incorporate a 50mm Foul Odour Trap that means that the whole unit can be installed directly into the drainage pipe socket without having to use a bulky and expensive body.

If required to seal to DPM then the ADVANTAGE Body unit allows for a completely sealed installation, but still with the advantages of cost and space saving.

ADVANTAGE Trapped Grates can be used with all the traditional body components in the Caroflow range.



ADV/SS/150S Caroflow 150mm Square Stainless Steel Advantage Trapped Grating Assemblies suitable for use in tiled flooring situations and simple connection to 110mm socketed pipe.

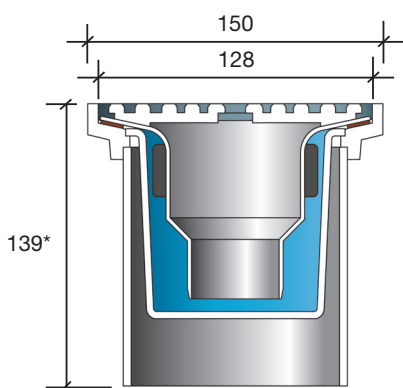


ADV/SS/150CF Caroflow Stainless Steel Advantage Trapped Grating Assembly with Clamping Flange. Suitable for use in vinyl/sheet flooring situations and simple connection to 110mm socketed pipe.

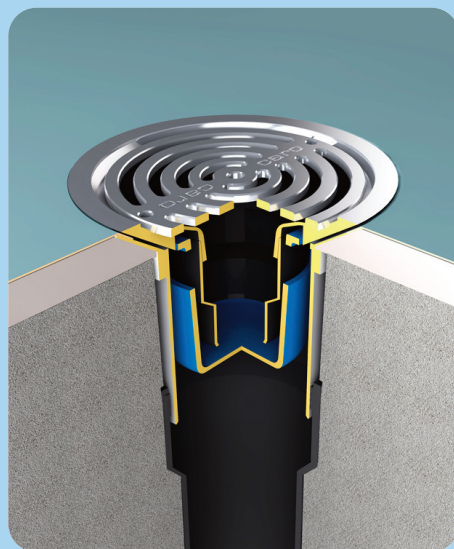
* Length and material can be made to order

Floor Drains

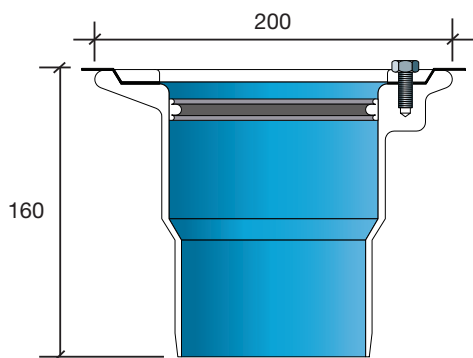
Advantage Trapped Grate Assemblies



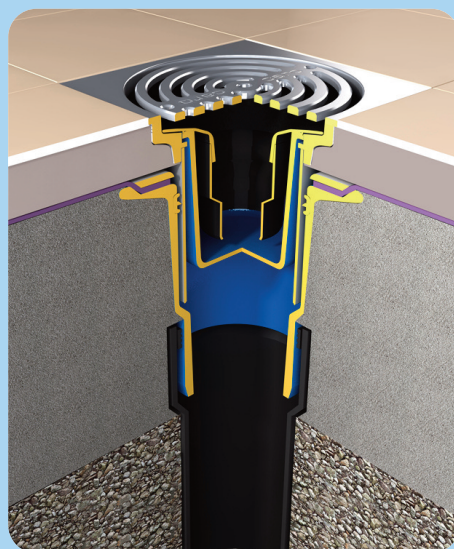
ADV/SS/150C Caroflow 150mm Circular Stainless Steel Advantage Trapped Grating Assemblies suitable for screeded floor finishes and simple connection to 110mm socketed pipe.



Typical detail showing ADVANTAGE Trapped High Quality Stainless Steel Grating Assembly (ADV/SS/150CF) for installation with and sealing to Vinyl Sheet Flooring – installed directly into soil pipe socket.



ADV/100 Caroflow 100mm Spigot Advantage Floor Body with Clamping Flange for connection to DPC and direct connection to Advantage Grating Assembly (supplied separately).



Typical detail showing ADVANTAGE Body (ADV/100) sealing to DPM with 150mm square (ADV/SS/150S) Trapped High Quality Stainless Steel Grating Assembly for Tiled Floor finish.

* Length and material can be made to order

Floor Drains

Un-trapped Floor Drains



Caroflow Un-Trapped Floor Outlet body assemblies are manufactured in electrostatically coated, pre-treated, LM6 Aluminium (Corrosion Resistant) Silicon alloy, all with stainless steel fixings.

Each Body Assembly requires the specification of a separate Grating Assembly, as detailed on page 8.

All floor outlet bodies will enable a perfect seal between the water/damp proofing membrane and the drainage pipe work.

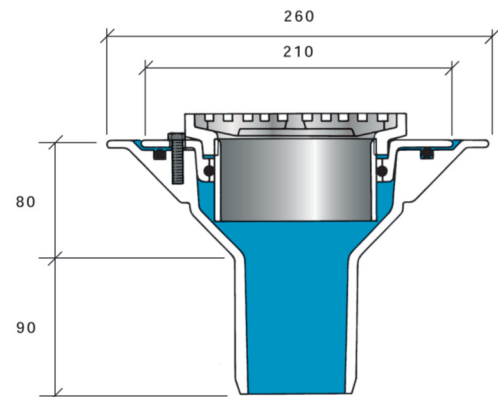
Connections

Un-Trapped Floor Outlets are available with either a vertical or horizontal spigot that is suitable for direct connection to 75mm nominal bore uPVC pipework (82mm O/D)

Adaptors for connection to varieties of plain-ended 100mm (and other sizes) pipework, are available from Caroflow Limited.

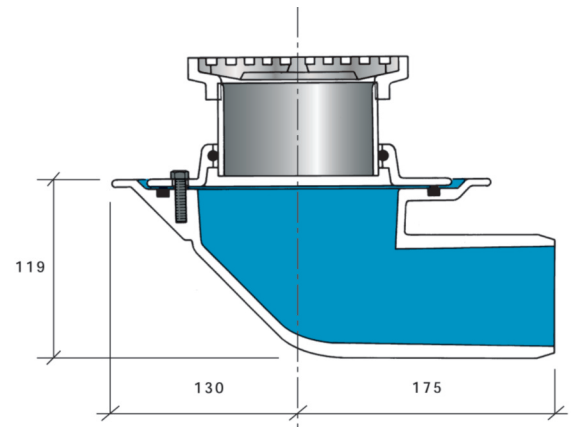
Example specification

CAROFLOW Vertical Spigot Un-Trapped Floor Outlet Code UVS/75 with S/Steel 150mm x 150mm Square Grating Assembly with short spigot Code FD/SS/150S/SS for installation in tiled floor finish, elsewhere measured, all as manufactured by Caroflow Limited Tel: 01763 244446.



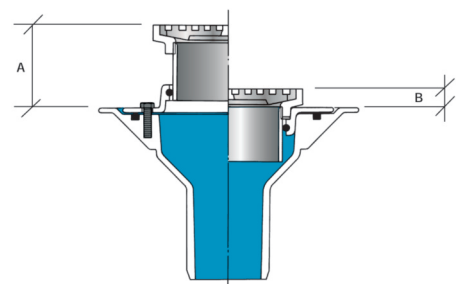
Vertical Spigot Un-Trapped Code UVS/75

Shown with FD/SS/150C/SS, 150mm dia. S/Steel circular grating assembly (short spigot) in clamping ring, lower position.



Horizontal Spigot Un-Trapped Code UHS/75

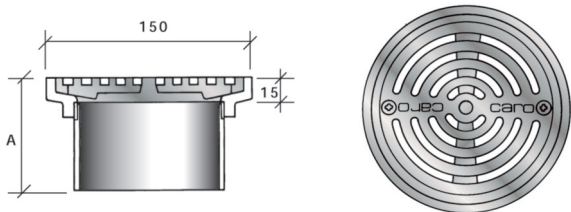
Shown with FD/SS/150C/SS, 150mm dia. S/Steel circular grating assembly (short spigot) in clamping ring, higher position.



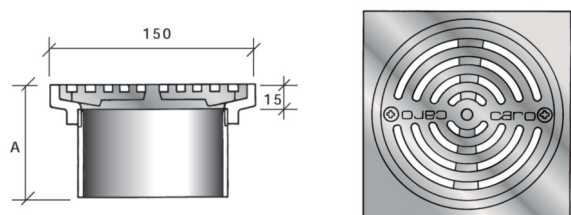
For height adjustability please refer to page 4.

Floor Drains

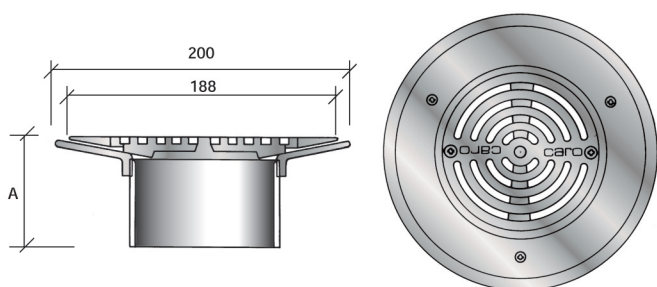
Grating Assemblies



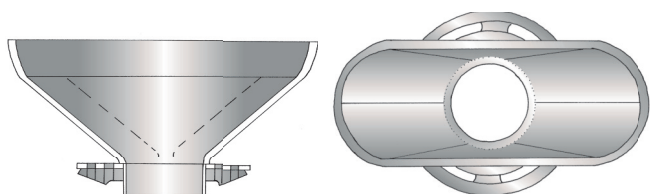
150mm S/Steel Circular Grate and Bezel Assembly. Code FD/SS/150C



150mm x 150mm S/Steel Square Tile Grate and Bezel Assembly.
Code FD/SS/150S



150mm S/Steel Grate and Bezel Assembly with Clamping Flange for
sheet flooring. Code FD/SS/150CF



220 x 85 x 96mm Tundish for Multiple Indirects. Code FD/TUNDISH1



Caroflow Grating Assemblies are designed for use with Trapped and Un-Trapped Floor Outlets. Manufactured in highest quality Stainless Steel, the grate is secured with stainless steel screws, within the bezel surround, that has been assembled with a throat of 110mm tube. These throats (or spigots) can be produced in any length and they allow a totally flexible and fully adjustable combination of height and level to the grating assembly (see Height Adjustability – page 4).

Short Spigot (Code /SS) 45mm length
Medium Spigot (Code /MS) 100mm length
Long Spigot (Code /LS) 200mm length

The large diameter of the mouth of the spigot also allows easier and unobstructed access for rodding and cleaning. The throat is inserted into the clamping ring opening that contains a retained ring seal, which then provides an airtight seal whilst still allowing full vertical and horizontal movement to ensure the final position is completely flush with the finished flooring.

Opposite is a selection of the standard Grating Assemblies available from Caroflow, but specifiers should contact Caroflow for the availability of fittings not shown, as we are continuously upgrading and expanding our range of products and “specials” can often be designed and manufactured quickly, as well as cost effectively.

Tiled Floors Use 150mm x 150mm S/Steel Square Grating assembly. Code FD/SS/150S.

Flexible Sheet Floors Use 150mm S/Steel Circular Grate assembly, with separate Clamping Ring to seal/secure sheet flooring to Grate assembly. Code FD/SS/150CF.

Screeded Floors Use 150mm S/Steel Circular Grate assembly Code FD/SS/150C.

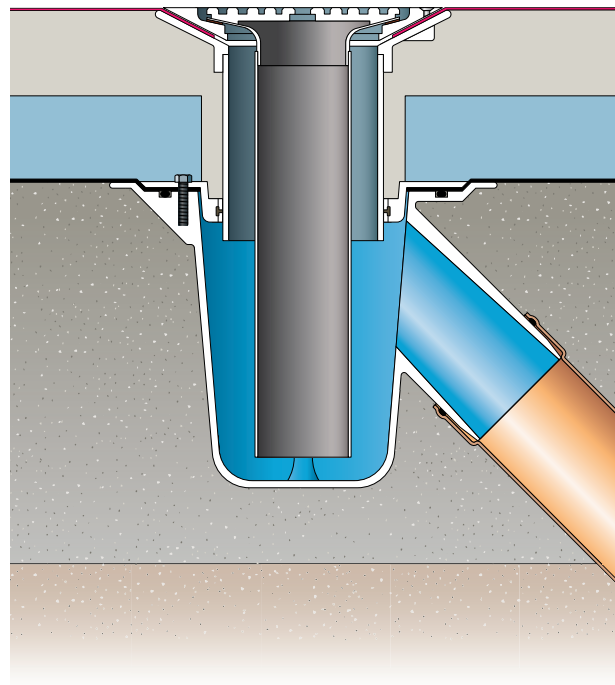
Component	Dimension – A
Short Spigot	75mm
Medium Spigot	130mm
Long Spigot	230mm

Floor Drains

Application Details

Trapped 45 Degree Spigot Outlet – Flexible Sheet Flooring

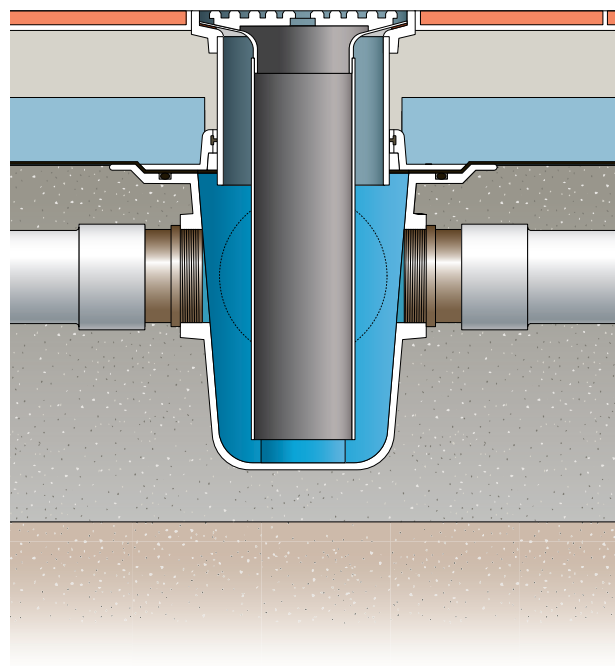
- Connect spigot of outlet body to exposed end of main pipe. Ensure the outlet flange is level with finished slab prior to casting in.
- Lay damp proofing membrane over concrete slab and outlet body. Fix clamping ring* into position. (D.P.M. can remain uncut over outlet to give protection to drainage from debris/waste etc., until screeding is ready to be laid, then the membrane can be cut out with a knife).
- Lay insulation.
- Remove Trap from Grate assembly. Insert bezel into clamping ring (using suitable lubricant to ease insertion/ movement) Adjust height to finished screed level.
- Lay screeded floor finish flush to top edge of grate flange.
- Lay flexible sheet flooring and cut out hole approx. 135mm dia. directly above outlet.
- Secure clamping ring of grate assembly to seal sheet flooring to outlet.
- Measure the distance that the trap projects above the grating, when inserted. Trim off this distance to allow it to sit within the bezel and re-fit grating.



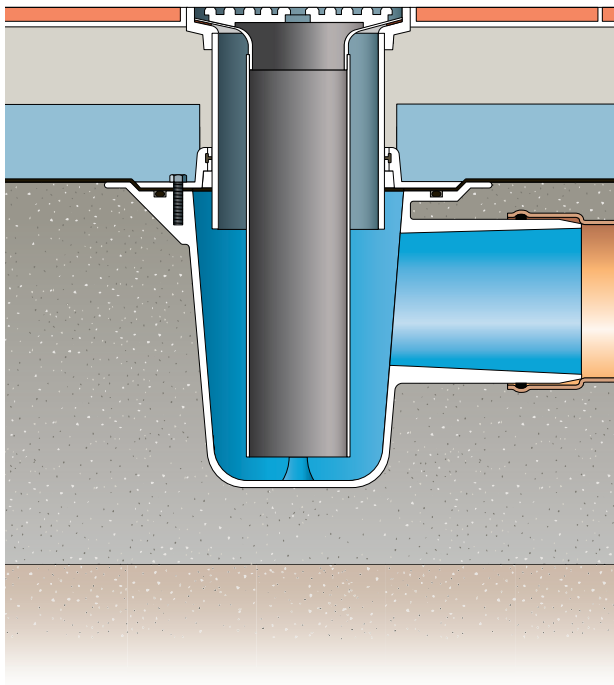
TS/75 Body Assembly with FD/150CF Grate Assembly

Trapped Horizontal Spigot Outlet with inlets – Tiled Floor Finish

- Connect spigot of outlet body to exposed ends of pipes directly or using coupling/adaptors. Ensure the outlet flange is level with finished slab prior to casting in.
- Lay damp proofing membrane over concrete slab and outlet body and fix clamping ring* into position. (D.P.M. can remain uncut over outlet to give protection to drainage pipe work from debris/waste etc., until screeding is ready to be laid, whereupon the membrane can be cut out with a knife).
- Lay insulation.
- Remove Trap from Grate assembly. Insert bezel throat into clamping ring (using suitable lubricant to ease insertion/ movement) and adjust height to finished screed level.
- Lay screeded floor finish flush to a height below the grate level, that will allow for tiling to be laid flush with the grating and then lay floor tiles.
- Measure the distance that the trap projects above the grating when inserted and trim off this measured distance to allow it to sit within the bezel and re-fit grating.



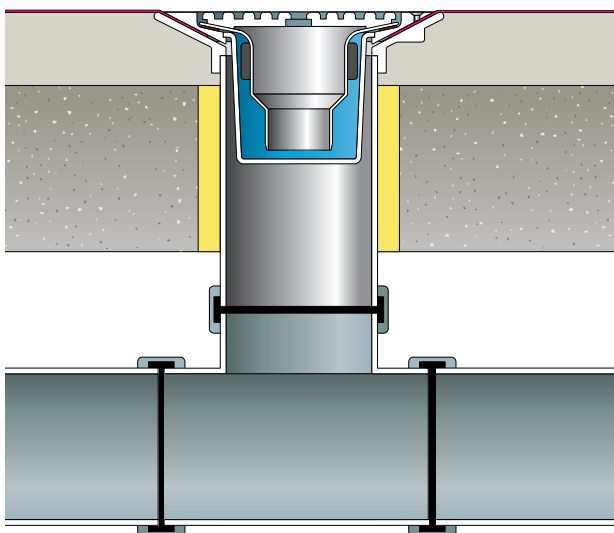
THSA/100 with FD/150S Grate Assembly



THS/100 with FD/150S Grate Assembly

Trapped Horizontal Spigot Outlet – Tiled Floor Finish

- Connect spigot of outlet body to exposed end of pipe directly or using coupling/adaptors. Ensure the outlet flange is level with finished slab prior to casting in.
- Lay damp proofing membrane over concrete slab and outlet body and fix clamping ring* into position. (D.P.M. can remain uncut over outlet to give protection to drainage pipe work from debris/waste etc., until screeding is ready to be laid, whereupon the membrane can be cut out with a knife).
- Lay insulation
- Remove Trap from Grate assembly. Insert bezel throat into clamping ring (using suitable lubricant to ease insertion/ movement) and adjust height to finished screed level.
- Lay screeded floor finish flush to a height below the grate level, that will allow for tiling to be laid flush with the grating and then lay floor tiles.
- Measure the distance that the trap projects above the grating, when inserted, and trim off this measured distance to allow it to sit within the bezel and re-fit grating.



ADV/150CF/CI Advantage Trapped Grating Assembly
with thin wall Cast Iron throat

Advantage Trapped Grate Assembly – Suspended Floor – Flexible Sheet Flooring

- After completion of slab installation, form an opening to allow Advantage assembly to be installed (approx 165mm – 170mm diameter gives sufficient clearance to allow retardant foam to be used).
- Locate the Advantage assembly in the opening and, temporarily, secure so that the grate will finish level with the finished screed.
- Connect spigot/throat of Advantage to pipework with proprietary coupling.
- Infill gap between Advantage spigot and concrete slab with fire retardant foam.
- Lay screeded floor finish flush to top edge of grate/bezel flange.
- Lay flexible sheet flooring and cut out hole approx. 135mm dia. directly above outlet.
- Secure clamping ring of grate/bezel assembly to seal sheet flooring to outlet.

*The clamping ring, on the Trapped Floor Drains, is manufactured with a small "weep" hole to allow any trapped water within the screed to drain into the outlet body. If pressure testing of the drainage system will be required, ensure that the bung supplied has been left in place to seal the "weep" hole.

Shower Drains

CaroLoLine

CaroLoLine Shower Outlets are suitable for installation in sheet flooring or tiled floor finishes and provide an extremely aesthetic solution to the problem of robust metal trapped drainage from high performance shower units within a very shallow void in which to install and drain from.

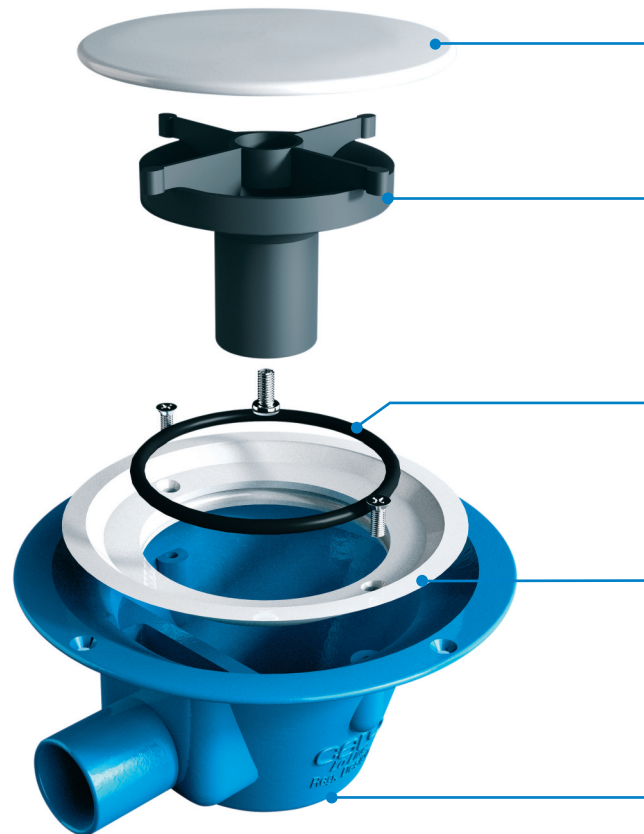


Available with a horizontal take-off, the depth of the whole body unit is only 95mm, small enough to be installed within the space formed by low lift 100mm joists when supported on a suspended timber floor.

This reduced height now makes it even easier to use within the screed build-up on top of a concrete deck and yet can still give a full 50mm of trap.



The CaroLoLine Clamp and Cover (or Tile Set) can be supplied either Machined or Polished Stainless Steel or Powder Coated. Normally the powder coating will be in a crisp, clean white but, dependent on quantities, other colours are available.



Cover Plate

Manufactured in Polished/Machined Stainless Steel or powder coated.

Trap

Made from Polypropylene and secured to the Cover Plate – easily removed and installed without fixings.

Sealing Ring

Held captive in the Clamping Ring – provides a full gas tight seal to prevent foul odours and still allow easy removal of the Trap and Cover Plate.

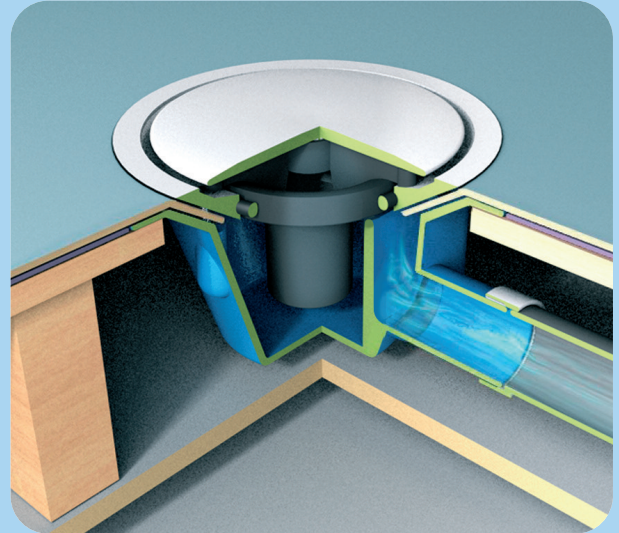
Clamping Ring

So as to match the Cover Plate, this casting is coated or stainless steel – holds the cover and trap in place and is used to compress and seal to a waterproofing membrane.

Body

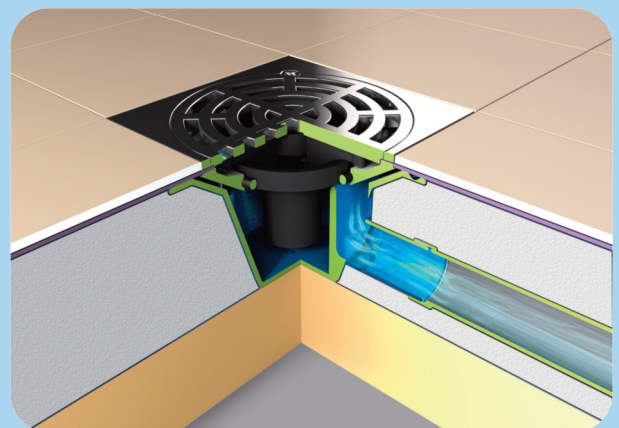
Powder coated 'Caro Blue', the body is only 95mm in height – allows easy connection to 40mm compression or push fit pipe work.

Vinyl Sheet Flooring on Timber Deck



In a vinyl sheet flooring situation the sheeting is clamped under the clamping ring ensuring a completely water tight installation.

Tiled Flooring on Concrete Deck



If a tiled floor is to be used, then a separate tile set is available. This is then fixed directly over the outlet mouth and the grating is removable to allow full access to the trap unit.

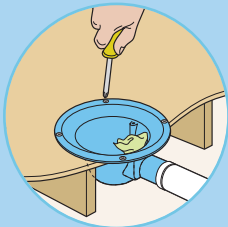
Shower Drains

CaroLoLine

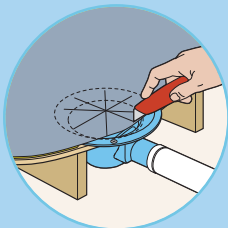
Flexible Sheet Flooring on Timber Deck



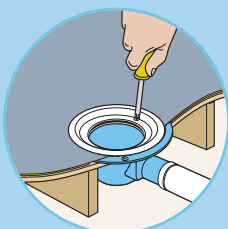
- 1 Lay timber flooring boards, with falls to outlet point. Cut out 170mm diameter hole at required position. Remove cover/trap and clamp from LoLine body. Plug internal outlet point with paper bung (prevents debris from entering drainage system).



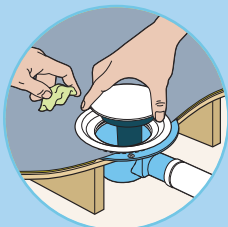
- 2 Connect outlet spigot to 40mm (1.5") PVC Compression or Push Fit waste pipe or, using proprietary adaptors, to 50mm (2") pipe. Ensure that outlet flange is screw fixed into recess within flooring board so that it is flush with top surface.



- 3 Lay and adhere flexible sheet flooring over whole area and star cut into the mouth of the outlet, as shown.



- 4 Position and secure clamping ring into mouth of outlet. Ensure that membrane is firmly trapped between clamp and body. Cut around clamp mouth to remove any sheet flooring that may be protruding.

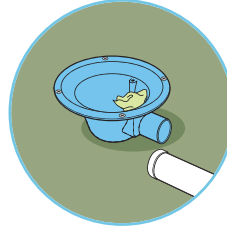


- 5 Remove paper plug and install cover/trap.

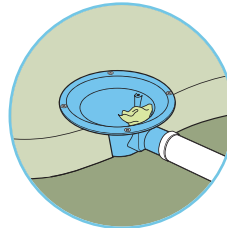


- 6 Run water into LoLine and, once trap is full, check for foul odours.

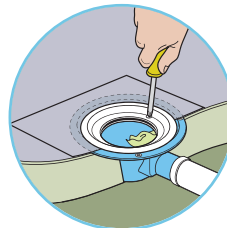
Tiled Flooring on Concrete Deck



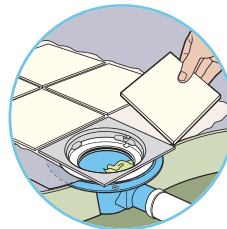
- 1 Remove cover/trap and clamp from LoLine body. Plug internal outlet point with paper bung (prevents debris from entering drainage system). Connect outlet spigot to 40mm (1.5") PVC Compression Fittings waste pipe. Use proprietary adaptors, to 50mm (2") pipe.



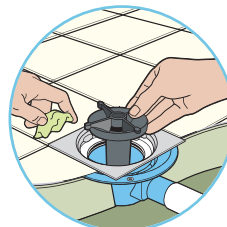
- 2 Lay screed to correct falls, to finish level with outlet flange.



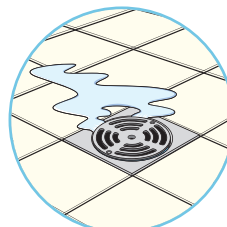
- 3 Ensure that the tiling waterproofing/tanking system is dressed into LoLine mouth according to the manufacturers instructions. The clamping ring is then firmly secured to ensure a perfect seal.



- 4 Remove grating from Tile Set and then position and adhere the square Bezel directly over the outlet mouth using tile adhesive. Work outwards to complete the remains of the tiled area.

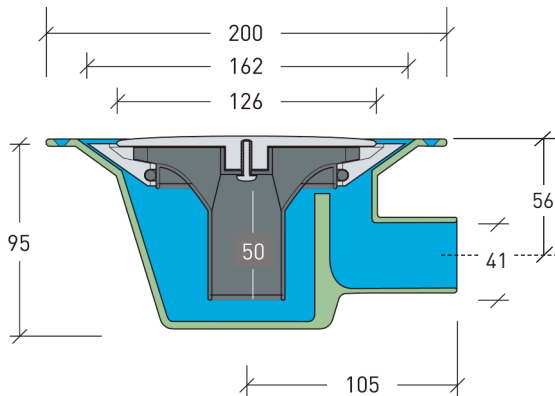


- 5 Once all tiling and grouting completed remove the paper plug and insert trap into "O" ring seal. Replace and screw grating back into Bezel.



- 6 Run water into LoLine and, once trap is full, check for foul odours.

Dimensions



Connections

The CaroLoLine will connect to all proprietary 40mm Compression or Push Fit systems.

Performance

CaroLoLine Shower Outlets have been tested and achieve a constant flow rate in excess of 0.45 litres per second, when connected to a 40mm (1.5") pipe.

Alternative Options

As a stock item CaroLoLine is available with either a Machined or Polished Stainless Steel or a bright, crisp white powder coating. With sufficient quantities, it is possible to have a choice of more than 80 stock powder coating colours.



Ordering

Order Code	Description
LL/T/SS/POL	Polished Stainless Steel LoLine for Tiled Flooring
LL/T/SS/MCH	Machined Stainless Steel LoLine for Tiled Flooring
LL/V/SS/POL	Polished Stainless Steel LoLine for Vinyl Flooring
LL/V/SS/MCH	Machined Stainless Steel LoLine for Vinyl Flooring
LL/T/P	Powder Coated LoLine for Tiled Flooring
LL/V/P	Powder Coated LoLine for Vinyl Flooring

Example Specification

CaroLoLine integrally trapped shower outlets, with Polished Stainless Steel finish, for tiled floor installation (Code LL/T/SS/POL) all as manufactured by CaroFlow Limited Tel: 01763 244446.

Manufacture

CaroLoLine Shower Outlet bodies are manufactured in pre-treated, electrostatically applied powder coated, diecast LM6 Aluminium (Corrosion Resistant) Silicon alloy. The Clamp and Cover (or Tile Set) can be supplied either Machined or Polished Stainless Steel or Powder Coated.



Removal of Trap/Cover

When removing trap/cover, if it is found to be difficult to move then, please use a lever in the drainage opening between clamp and cover ie. spoon handle, flat bar, screwdriver, etc.

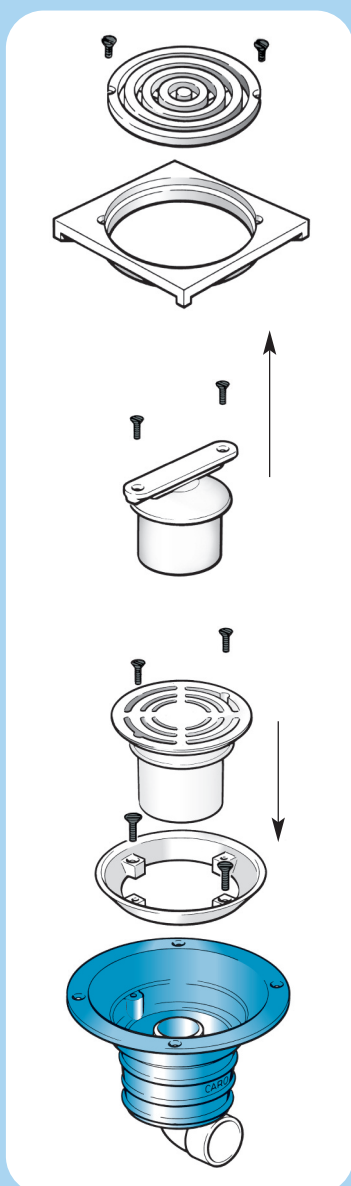
IMPORTANT: Ensure that whatever is used to lever is wrapped with cloth material to prevent damage to coated finishes.

Shower Drains

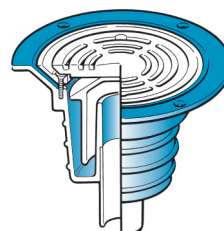
Traditional



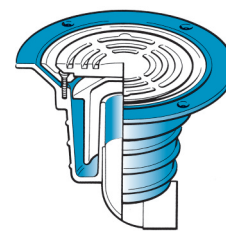
Caroflow Shower Outlets are suitable for installation in sheet flooring or tiled floor finishes and provide an extremely aesthetic solution to the problem of trapped drainage from high performance shower units (or communal shower areas) with a limited floor void in which to install and drain from.



Both Body Sets and Clamp/Trap Sets, are manufactured in electrostatically coated, pre-treated, LM6 Aluminium (Corrosion Resistant) Silicon alloy to, with stainless steel fixings.



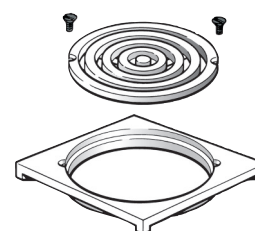
Code SDVS/40



Code Code SDHS/40

Available with either a vertical or horizontal take-off, the depth of the whole body unit is only 155mm, small enough to be installed within the space formed by 150mm joists when supported on a suspended timber floor and yet still be able to give a full depth of trap and drain at a constant rate of over 0.75 litres per second.

This Caroflow unit incorporates a removable trap/grate cover that is secured by stainless steel screws (to prevent unwanted removal) that, when removed, will allow for cleaning and careful rodding through to the main drainage pipe.



Code SD/150TS

A separate Tile Set is available for use, installed over the fixed outlet body, within a tiled floor finish (see page 17). The grating is removable after installation to allow access to the special removable trap unit (SD/CT/TS) that is used in place of the usual trap/grate cover for normal vinyl sheet floor installations.

The clamp/trap and tile set are normally supplied in a crisp and clean white but it is possible to order alternative colours if it is necessary to co-ordinate with internal decors. Also available as a very high quality polished or machined Stainless Steel option for the separate Tile Set (see page 16).

Shower Drains

Traditional



Machined Stainless Steel Tile Set
Code SD/150TS/SS/MCH



Polished Stainless Steel Tile Set
Code SD/150TS/SS/POL



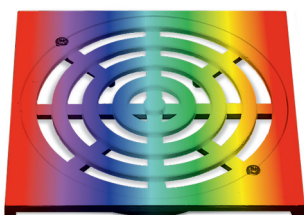
Shower Outlet Sealing Plate. Code SD/SP



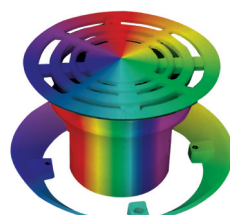
Shower Outlet Extension Ring. Code SD/ER

Alternative Options

Caroflow Shower Outlet Clamp and Trap sets are available in a choice of over 80 stock powder coating colours. For special requirements i.e. corporate livery, interior decor, etc., please ascertain as to the actual RAL number for the colour required and contact CAROFLow LIMITED for the availability or nearest equivalent option.



Powder Coated Tile Set
Code SD/150TS



Clamp and Trap Set
Code SD/CT

Connections

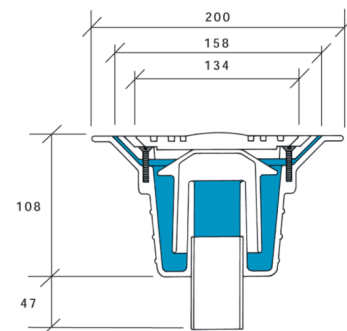
Both the vertical and horizontal units will allow direct connection to 40mm (1.5") solvent weld pipe or to push-fit using proprietary pipe manufacturer's fittings.

Performance

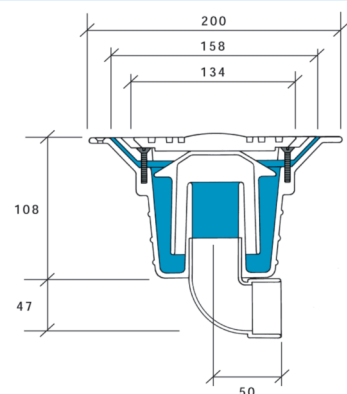
Caroflow shower outlets have been tested and achieve a constant flow rate in excess of 0.75 litres per second, connected to a 40mm (1.5") pipe.

Example specification

CAROFLOW horizontal spigot trapped shower outlet for tiled floor installation Code SDHS/40/T, all as manufactured by Caroflow Limited Tel: 01763 244446.



Vertical Spigot Shower Outlet (for vinyl floor) Code SDVS/40/V



Horizontal Spigot Shower Outlet (for vinyl floor) Code SDHS/40/V

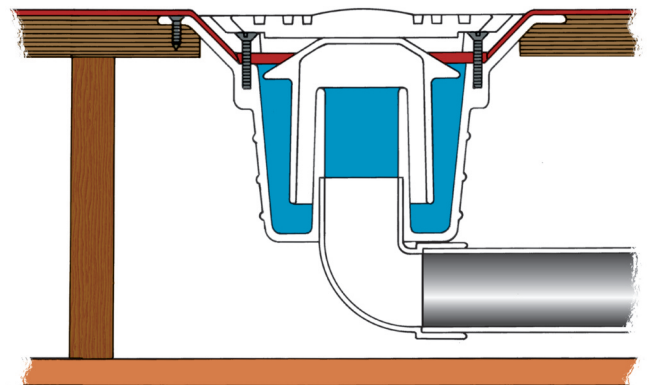
Although Caroflow Shower Outlets essentially consist of three groups of components (body, clamp/trap, tile set) that can be ordered separately, it is recommended to merely detail the direction of take off and the floor finish i.e. SDVS/40/V which equals – Shower Outlet, Vertical, Vinyl Floor – this then will allow for the provision of all required components.

Shower Drains

Traditional

Horizontal Spigot Shower Outlet – Flexible sheet flooring on timber deck

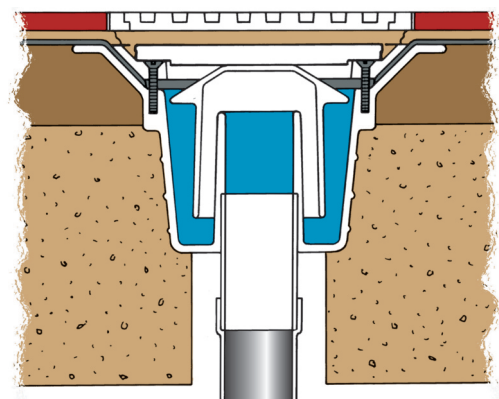
- Lay timber flooring boards, with falls, to outlet point and cut out 170mm diameter hole at required position.
- Connect outlet spigot directly to 40mm (1.5") PVC waste pipe or, using proprietary adaptors, to 50mm (2") pipe.
- Ensure outlet flange is screw fixed into recess within flooring sheet so that it is flush with top surface.
- Lay and adhere flexible sheet flooring and cut around outlet mouth.
- Position and secure clamping ring with sheet flooring trapped between clamp and body.
- Position and secure removable trap/cover.



SDHS/40/V Horizontal Spigot Shower Outlet

Vertical Spigot Shower Outlet – Tiled flooring on concrete deck

- Grout outlet body into pre-prepared hole within slab, ensuring that flange is set at minimum screed level.
- Lay screed to correct falls to finish level with outlet flange.
- Lay waterproofing membrane over screeded finish and cut hole around outlet mouth.
- Position and secure clamping ring with membrane trapped between clamp and body.
- Starting from outlet position, lay tiles on relevant adhesive bedding, ensuring that the tile set of the shower outlet is centrally placed over the outlet mouth and work outwards to complete area.
- Position and secure special removable trap.
- Screw grating into the tile set surround.



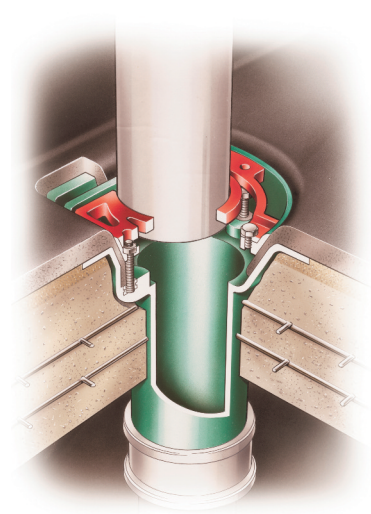
SDVS/40/T Vertical Spigot Shower Outlet (includes SD/150TS Tile Set)



Caro Roof Drainage Systems

Flat Roof Drainage Outlets ensure a watertight connection between the water/damp proofing membranes and the drainage pipework.

- Extensive range and variety of outlets
 - UK based manufacturing
- Full design and fabrication facilities
 - Caro Support – Paving Slab Support System
- Immediate drainage between and under slabs
- Protection of waterproofing membrane



Caro Flood Defence Systems

Manufacturer of flood protection products since 2001 and has built up a reputation for quality and performance.

- WaterWall and WaterDoor
- Aluminium and steel in manufacture
 - Quick and easy assembly and dismantling
- Competitively priced with speedy delivery
 - UK manufactured and designed
 - Available for special and bespoke situations



Maybrey Reliance Foundry

A complete service from casting to finished products, specialising in all aspects of Ferrous and non-Ferrous Sand and Die Castings.

- ISO 9001 Quality Assured – CAA Approvals
- Caters for all Commercial, Aerospace, Military and other requirements
- London based – easy access to the M25
 - In house heat treatment – Light engineering facilities
- Tool Making and Pattern Making

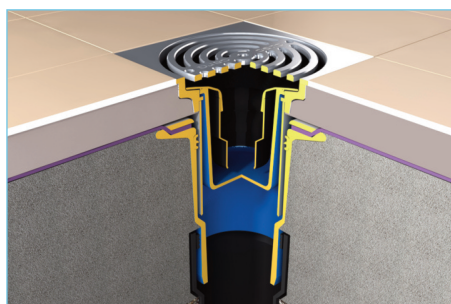


CAROFLOW[®]

Floor Drainage Products

Caroflow Ltd
Edge Barn
11 Market Hill
Royston, Herts
SG8 9JN
United Kingdom

Tel: +44 (0)1763 244446
Fax: +44 (0)1763 244111
Email: info@caro.co.uk
Web: www.caro.co.uk



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