

## 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.

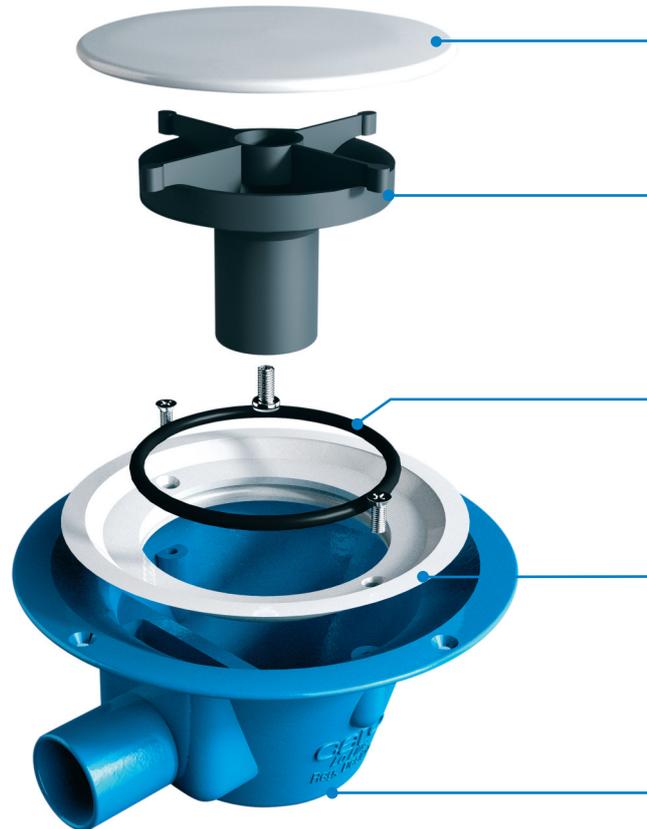


Available with a horizontal take-off, the depth of the whole body unit is only 95mm, small enough to be installed within the space formed by low lift 100mm joists when supported on a suspended timber floor.

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.

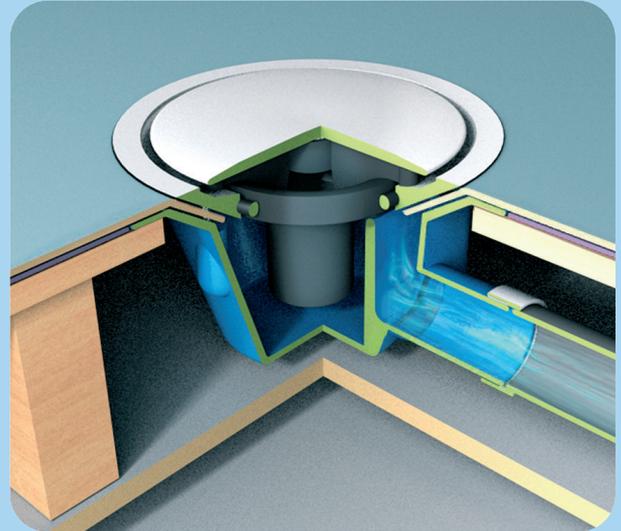
### Clamping Ring

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

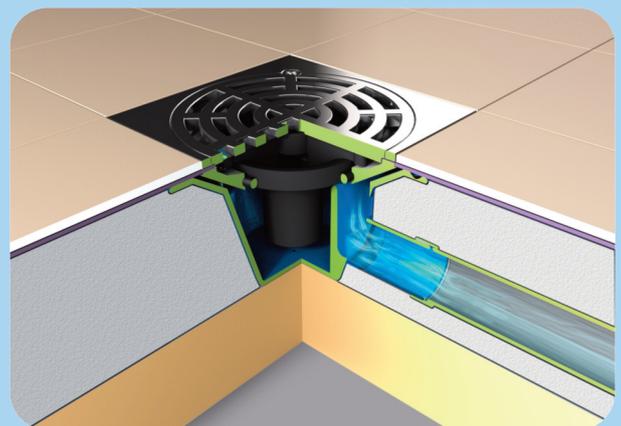
Powder coated 'Caro Blue', the body is only 95mm in height – allows easy connection to 40mm compression or push fit pipe work.

### 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.

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## CaroLoLine

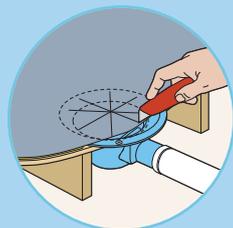
### Flexible Sheet Flooring on Timber Deck



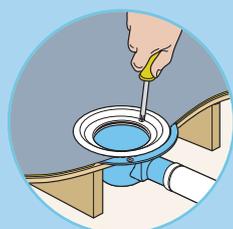
**1** Lay timber flooring boards, with falls to outlet point. Cut out 170mm diameter hole at required position. Remove cover/trap and clamp from LoLine body. Plug internal outlet point with paper bung (prevents debris from entering drainage system).



**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.

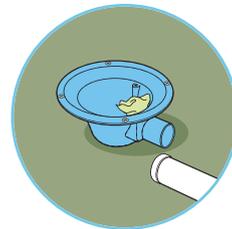


**5** Remove paper plug and install cover/trap.



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

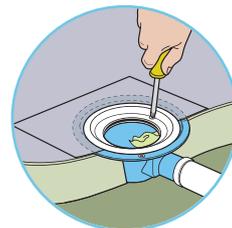
### Tiled Flooring on Concrete Deck



**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.

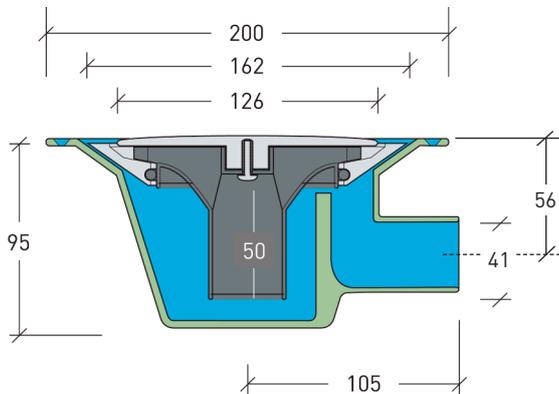


**6** Run water into LoLine and, once trap is full, check for foul odours.

# Shower Drains

CaroLoLine

## 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

## 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 i.e. spoon handle, flat bar, screwdriver, etc.

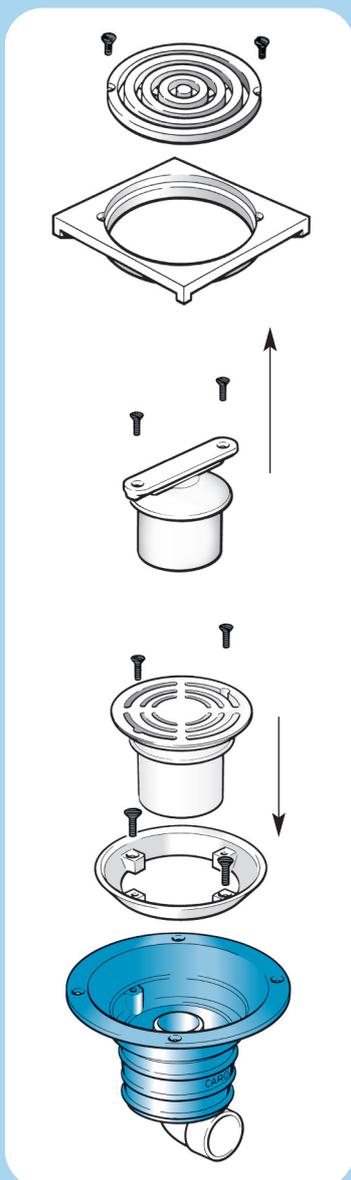
**IMPORTANT:** Ensure that whatever is used to lever is wrapped with cloth material to prevent damage to coated finishes.

# Shower Drains

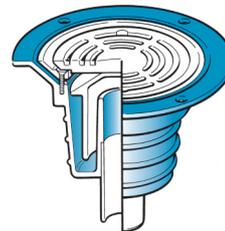
## Traditional



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.



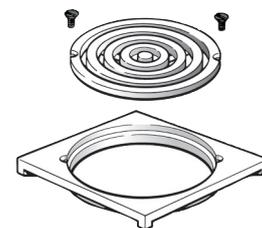
Code SDVS/40



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



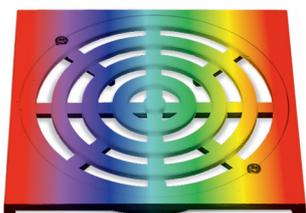
**Shower Outlet Sealing Plate. Code SD/SP**



**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

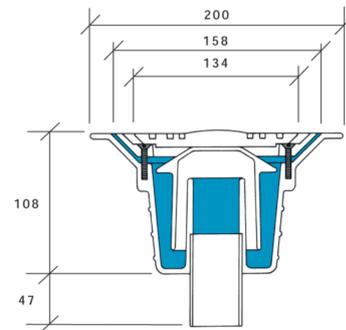
Both the vertical and horizontal units will allow direct connection to 40mm (1.5") solvent weld pipe or to push-fit using proprietary pipe manufacturer's fittings.

### Performance

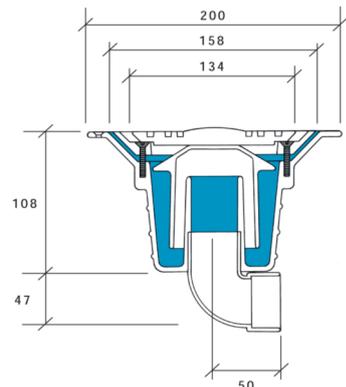
Caroflow shower outlets have been tested and achieve a constant flow rate in excess of 0.75 litres per second, connected to a 40mm (1.5") pipe.

### 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**

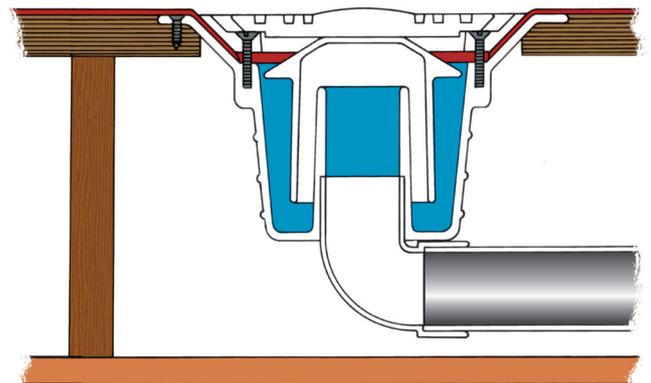
Although Caroflow Shower Outlets essentially consist of three groups of components (body, clamp/trap, tile set) that can be ordered separately, it is recommended to merely detail the direction of take off and the floor finish i.e. SDVS/40/V which equals – Shower Outlet, Vertical, Vinyl Floor – this then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

# Shower Drains

## Traditional

### Horizontal Spigot Shower Outlet – Flexible sheet flooring on timber deck

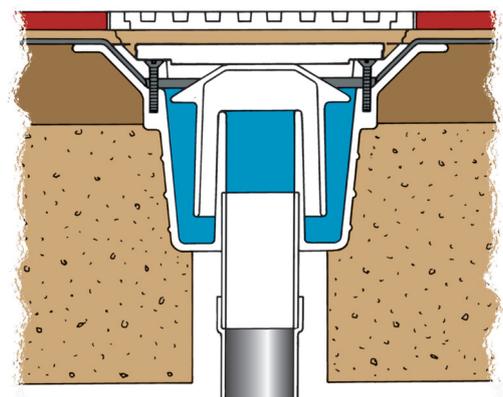
- Lay timber flooring boards, with falls, to outlet point and cut out 170mm diameter hole at required position.
- Connect outlet spigot directly to 40mm (1.5") PVC waste pipe or, using proprietary adaptors, to 50mm (2") pipe.
- Ensure outlet flange is screw fixed into recess within flooring sheet so 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)