

Controflow

Technical and Installation Information

About the Controflow SuDS Basket

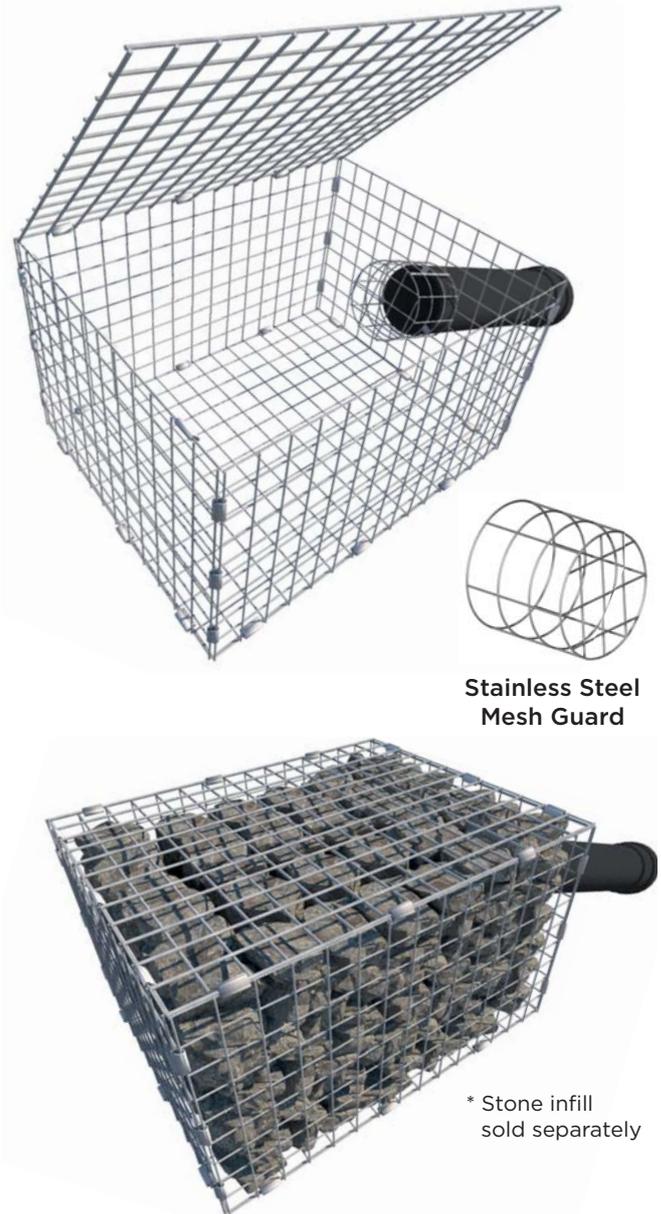
SUDS08401

The Controflow SuDS Basket inlet/outlet structure is designed to ensure that a free flow of water can leave or enter a SuDS feature without the risk of blockage. It acts as an attractive pipe inlet or outlet within landscaped SuDS features such as swales, ponds and basins.

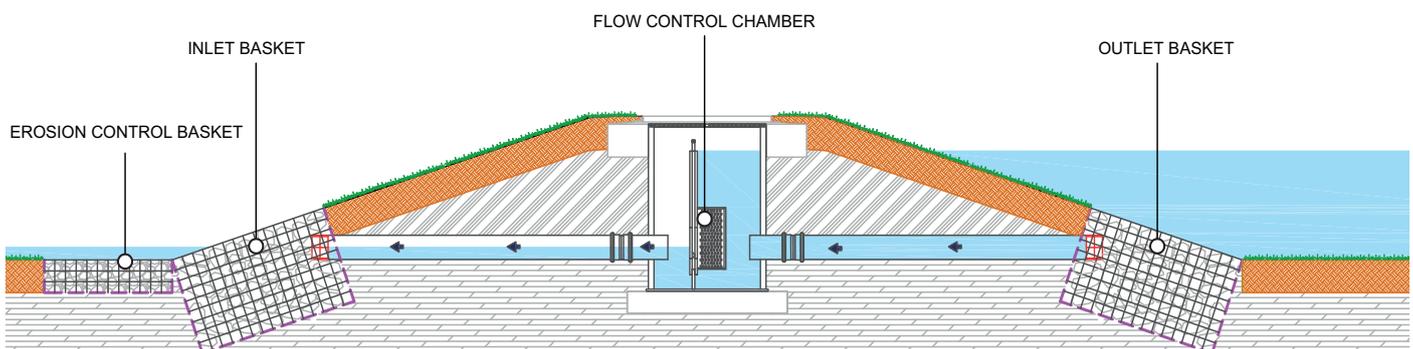
The SuDS Basket is particularly useful to protect the inlet to flow control structures - including those with protected orifices. It provides a large surface area protected by a surrounding geotextile blanket that collects water through a 50mm steel mesh grid and 80-150mm stone infill to protect a pipe entry from litter, leaf drop, plastic bags, and other debris. Fine silt passes directly through the system.

SuDS Baskets have been used in conjunction with Controflow flow control chambers with orifice diameters as small as 20mm, for many years without blockage occurring.

The SuDS Basket is supplied flat with crimp clips (fitted at 200mm centres) for simple assembly a stainless steel mesh guard (to specified pipe size) and a geotextile blanket. It is designed to be filled with 80-150mm stone and wrapped in geotextile on site.



Typical Applications - 100mm pipe inlet and outlet:



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Installing the Controflow SuDS Basket

- 1** Check the basket: including clips at 200mm centres and a 5mm gauge mesh face to the top.
- 2** Excavate a hole round the inlet/outlet pipe approx 100mm greater than the basket dimensions.
- 3** Confirm location of pipe entry to basket and cut the mesh to form a hole to receive the pipe end.
- 4** Sand blind the base of the excavation to provide a firm base for the basket.
- 5** Confirm that the basket edges will be flush with the proposed finished levels of the bank.
- 6** Place the geotextile liner in the excavation, cutting a cross opening to receive the pipe.
- 7** All geotextile cut edges should overlap by at least 150mm with the top fully lapped to prevent contamination of the basket by soil during construction.
- 8** Place the basket into the excavation and over the pipe end. There should be a minimum 100mm pipe within the basket to receive the stainless steel protective guard. There should be a minimum 100mm cover from the top of the basket to the top of the guard.
- 9** Fix the protective guard by push-fitting onto the tac welded flanges.
- 10** Fill the basket with selected 80-150mm stone with the final layer of stone placed flush with the basket lid to support it.
- 11** A single layer of 200x100x100mm or 100xx100x100mm granite setts, laid loose with 10mm joints, can be placed as a finishing layer to support the stainless steel lid and to provide an attractive finished appearance.
- 12** Close the basket lid ensuring all points are supported by stone.
- 13** Fix the stainless steel clips with the closed opening facing inwards into the basket, using a monkey wrench or adjustable spanner to close the clips around the two rods. The clip should be fully closed to reduce the possibility of unauthorised opening.
- 14** Lap geotextile over the lid to prevent soil ingress.
- 15** Cultivate a minimum of 100mm topsoil and tread to firm around the basket. Seed or turf with finished levels flush with the basket lid.
- 16** Cut geotextile to leave 50mm upstand around the basket once the SuDS becomes operational.
- 17** Cut the geotextile flush with the basket once the grass is fully established or at final completion of the project.