

the future of drainage

ACO SuDS Infiltration Channel Outlet

The ACO SuDS Infiltration Channel Outlet is a distribution system which prevents erosion and localised ponding of water in SuDS installations.

ACO's MultiDrain[®] channels can be utilised in pedestrian and trafficked areas, to convey water direct to SuDS features. As well as being the main collection point, drainage channels can be used to prevent water sheeting down pedestrian walkways or to even transfer water from downpipes.

Connecting the channel outlet to a 80mm perforated pipe allows water to be distributed at a high level, allowing the water to infiltrate effectively through the SuDS feature. ACO offers three stainless steel channel connectors for M100, M150 and M200 channels, making the connection of channels to perforated pipe quick and easy.

Benefits

- Reduces localised erosion and ponding during high rainfall events
- Small rainfall events are dispersed evenly for improved irrigation of plants
- Three stage debris and silt collection. Easily maintainable
- Quick and easy installation



Applications

• Channel connection to rain gardens, bioretention areas and to filter drains





SuDS Infiltration Channel Outlet M150

SuDS Infiltration Channel Outlet M200

Product Code	Description	Width	Length	Height	Weight
		mm	mm	mm	kg
ACO SuDS Infiltration Channel Outlet*					
27301	SuDS Infiltration channel outlet for M100	135	102	150	0.3
27302	SuDS Infiltration channel outlet for M150	185	102	210	0.4
27303	SuDS Infiltration channel outlet for M200	235	102	265	0.6

*All ACO SuDS Infiltration Channel Outlets come with an 80mm connector (for connection to 80mm perforated pipe - p/pipe, geotextile and p/pipe endcap not included)

Installation with Rain gardens/Bioretention

SuDS Infiltration Channel Outlet M100

ACO MultiDrain[®] channels are installed level with the surrounding pavement, our wide range of grates act as the first line of defence against debris ingress. Incorporating a sump or a 500mm long deeper channel unit in the system functions as an easily accessed sediment trap.

The integrated grille on the base plate provides the third line of defence against floating debris. The shallow invert allows the perforated pipe to be hidden under a thin layer of soil (option to install with geotextile sleeve). Three sizes of outlets allows channels to be selected based on your requirement for freeboard (water storage area) and the expected flow rates through the channel and garden.

Installation guidance based on CIRIA SuDS Manual C753, for illustration purposes only. Detailed installation statements and methodologies will vary for all sites as each will have different aspects deserving particular consideration, consequently the relevant approvals should be sought from the consulting engineer and/or the installer.

Please refer to individual channel details for installation details. Stainless steel plate can be attached using appropriate sealant. Where soil level is lower, extending the haunch or block paving edging (garden side) to secure the plate may be preferable.

Typical Specification Clause

The channel connector shall be ACO SuDS Infiltration Channel Outlet M100/M150/M200 (delete as appropriate) supplied by ACO Water Management. Baseplate manufactured from stainless steel supplied with an 80mm land drain connector.

Installed with a 0.0 channel

The baseplate will extend to the top of a 0.0 channel. Ideal for low flow installations, soil level can be at pavement level or just covering the perforated pipe. The overflow is set just below pavement level.

Soil at pavement level, no freeboard



Soil covering perforated pipe, allowing freeboard area



Installed with a deeper channel

With a deeper channel a weir is created at the top edge of the channel, ideal for high flow installations. During peak storm events this weir will direct water to the SuDS overflow, which is set just below the top level of the endplate.

Soil below pavement level, no freeboard, weir available for high flows



Soil covering perforated pipe, allowing freeboard area and weir is available for high flows



ACO Water Management Contacts: Sales: customersupport@aco.co.uk Technical: technical@aco.co.uk Tel: 01462 816666

