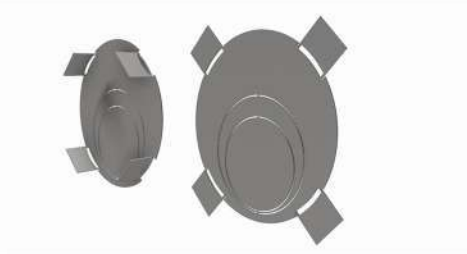
The Swarm Aqua® system has been designed so that almost all of the accessories that accompany the system are transferable across all of the products regardless of the surface finish.

Swarm Aqua® Universal End Caps

A simple steel plate to cap the end of a Swarm Aqua® channel run where a rodding point or outlet is not required.

Code	Description	Loading	Weight	Length	Height	Width	Invert
SB02	150mm End Cap	N/A	1kg	1.5mm	178mm	178mm	Channel
SB03	225mm End Cap	N/A	1kg	1.5mm	265mm	265mm	Channel
SB04	300mm End Cap	N/A	2kg	1.5mm	354mm	354mm	Channel
SB05	375mm End Cap	N/A	2kg	1.5mm	426mm	426mm	Channel



Swarm Aqua® Universal Transition Pieces

Used to connect one Swarm Aqua® Channel to the next when there is a change in size to achieve a graduated fall.

Code	Description	Loading	Weight	Length	Height	Width	Invert
SC02	150/225 Transition	N/A	1kg	1.5mm	285mm	265mm	Channel
SC03	225/300 Transition	N/A	1kg	1.5mm	374mm	354mm	Channel
SC04	300/375 Transition	N/A	2kg	1.5mm	446mm	426mm	Channel



Swarm Aqua® Universal Chamber Connectors

Used to connect one Swarm Aqua® Channel to Combined Access/Outlet Boxes shown overleaf.

Code	Description	Loading	Weight	Length	Height	Width	Invert
SS02	150mm Connector	N/A	1kg	450mm	178mm	178mm	Channel
SS03	225mm Connector	N/A	1kg	450mm	265mm	265mm	Channel
SS04	300mm Connector	N/A	2kg	450mm	354mm	354mm	Channel
SS05	375mm Connector	N/A	2kg	450mm	426mm	426mm	Channel



Universal access & outlet boxes to allow for both rodding access and outfall into external water systems.
For Cast systems, a grating or cover us supplied. For Paving systems, a recessed steel cover can be supplied.

Swarm Aqua® Combined Access/Outlet Boxes

Code	Description	Loading	Weight	Length	Height	Depth
SD01	Small Combined Box	D400*	31kg	524mm	610mm	450mm
SD02	Large Combined Box	D400*	48kg	605mm	750mm	675mm

*Swarm combined boxes are supplied with D400kN covers as standard



Swarm Aqua® Combined Access/Outlet Boxes for Paving

Code	Description	Loading	Weight	Length	Height	Depth
PD01	Small Paving Box	FACTA D	31kg	524mm	610mm	450mm





Combined Access/Outlet Units

Swarm Aqua® is a complete solution for most cases, as such Combined Access/Outlet Units are available to provide both an access solution for maintenance and an outlet for discharge into local waste water systems. Combined boxes are available for channels up to 300mm (small) and for channels up to 375mm (large).

The grating and frames supplied are load rated for up to D400kN. If access or outlet units are required with especially deep inverts, a chamber can be formed on site. F900kN Covers must be requested as special items.



Using Swarm Aqua® Access/Outlet Units

Swarm Aqua® combined boxes have been pre-perforated with the appropriate sizes for channel connections with Swarm Aqua® Chamber Connectors or standard twinwall pipe fittings. The knockouts' are removable by cutting through the 1.5mm steel tabs that hold them in place, following required site safety guidelines.

Outlet knockouts are also pre-cut on all four sides of the combined access/outlet boxes for connection to local waste water systems. These all provide an invert lower than the invert of Swarm Aqua® channels to ensure water is efficiently removed from the system.



Swarm Aqua® Chamber Connectors

When using either a Swarm Aqua® combined access/outlet box or a chamber formed on site, a Swarm Aqua® Chamber Connector can be used. This is a standard Twinwall pipe fitting and it is normal to use offcuts on site in lieu of this piece. A 200mm gap is reccomended between the end of the channel and the chamber itself to ensure that the cover and frame receive an adequate concrete surround to ensure the appropriate load rating is achieved.