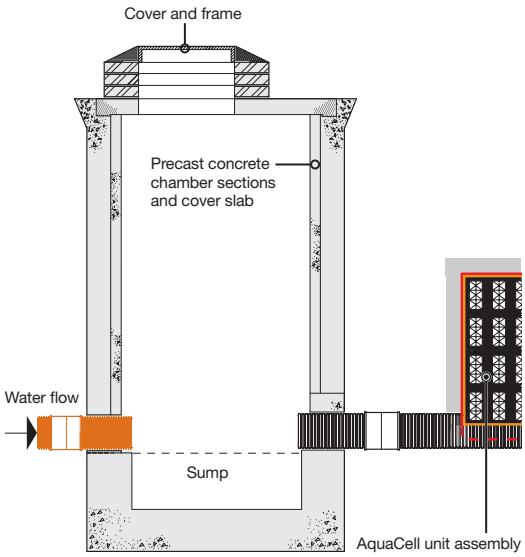
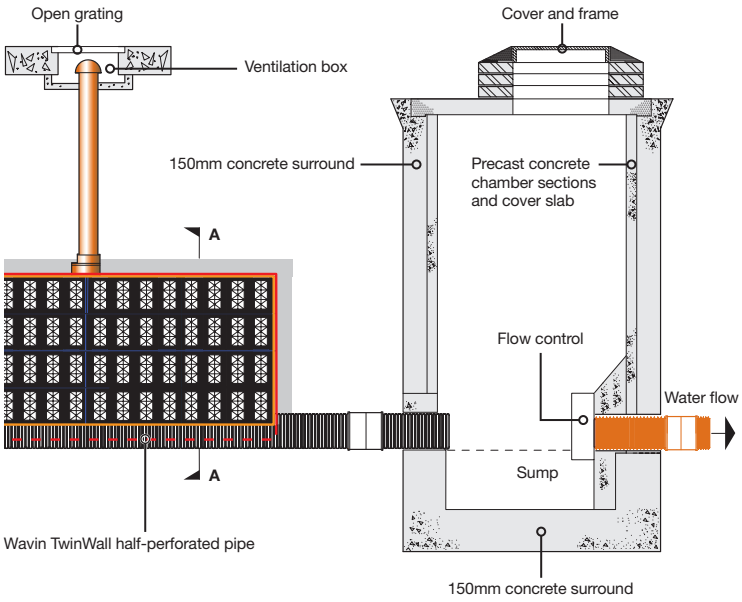
On-line storage

On-line storage – central pipe feed

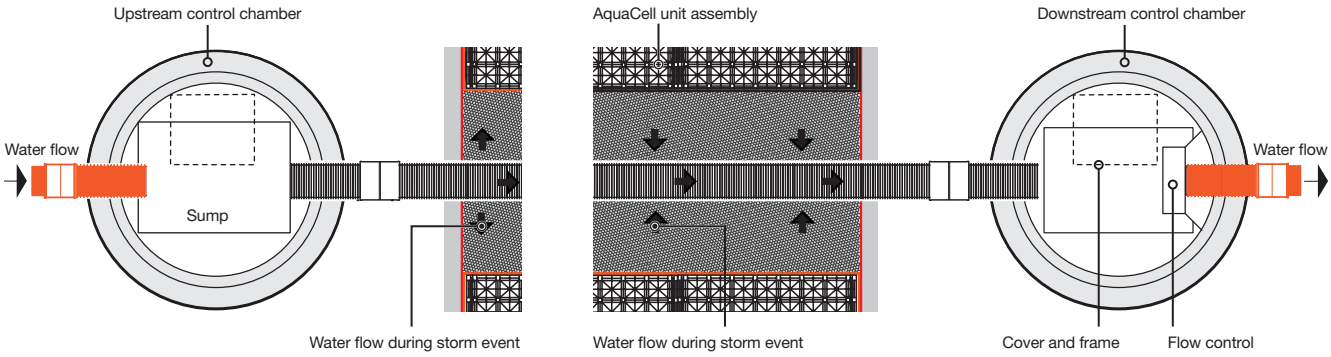
Long section



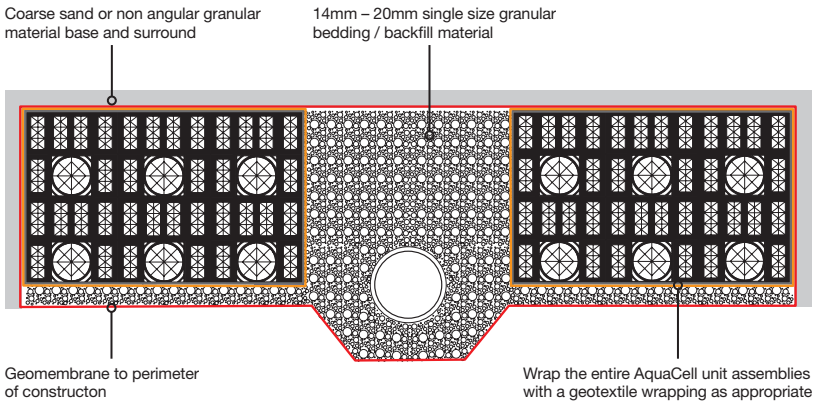
Typical vent detail



Plan



Cross section A-A



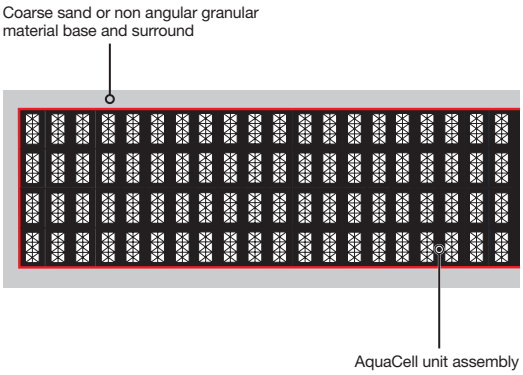
What happens to the water?

1. The water level in the upstream control chamber rises.
2. AquaCell storage assemblies fill with water via the central pipe connection and percolate's through the granular bedding material.
3. After storm event, water flows back out of the AquaCell storage assemblies, finding its own level, and into the downstream control chamber.
4. The water then flows through the vortex flow control valve.

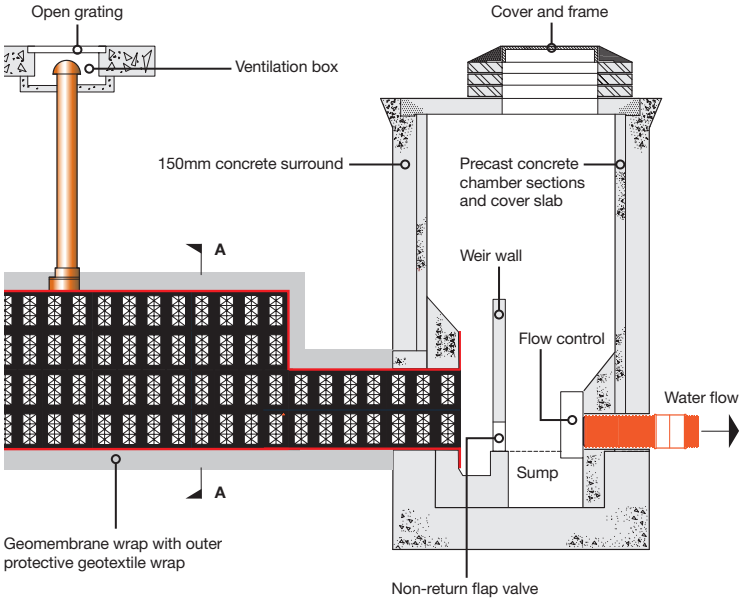
Off-line storage

Off-line storage – box feed

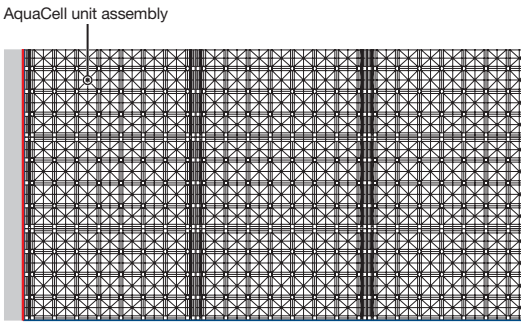
Long section

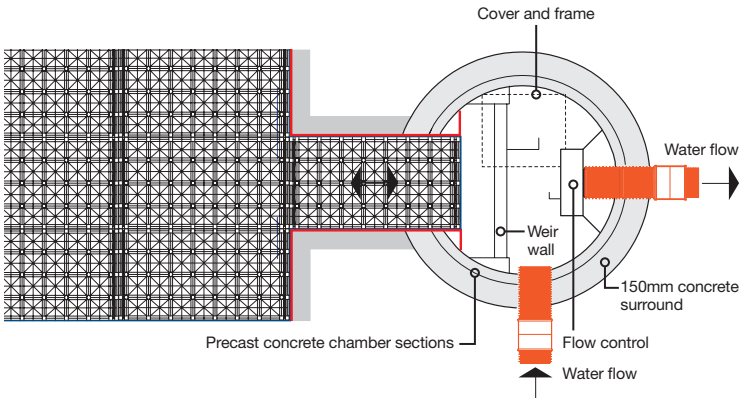


Typical vent detail

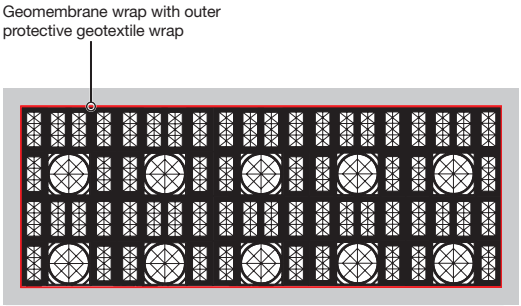


Plan





Cross section A-A



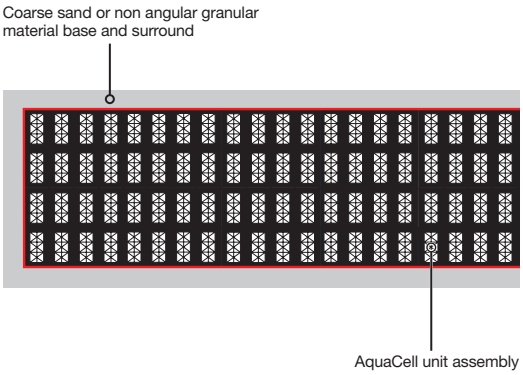
What happens to the water?

1. Control chamber fills with water, up to the top of the weir wall.
2. The water overflows the weir wall and enters the AquaCell storage assembly via the AquaCell connection.
3. The AquaCell storage assembly fills with water.
4. After storm event, water flows back out of the AquaCell storage assembly, finding its own level, and through the non-return flap valve at the bottom of the weir wall.
5. The water then flows through the vortex flow control valve.

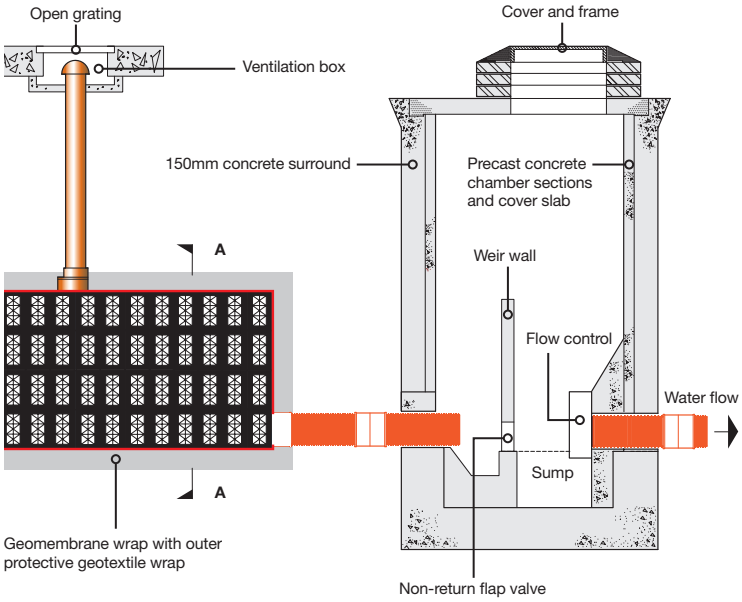
Off-line storage

Off-line storage – manifold feed

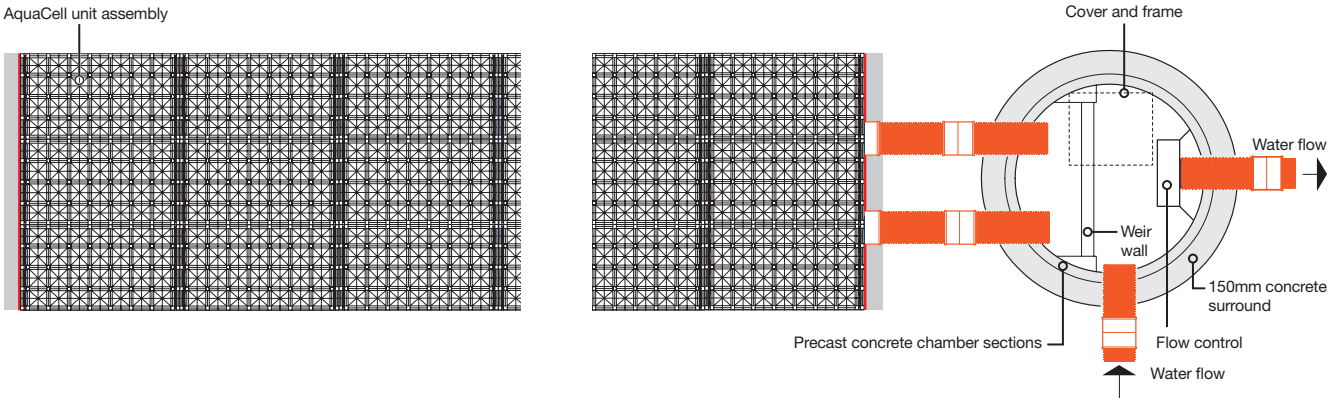
Long section



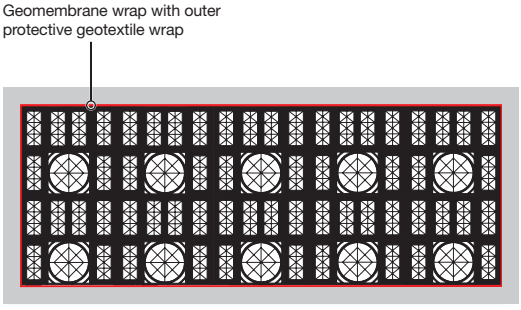
Typical vent detail



Plan



Cross section A-A

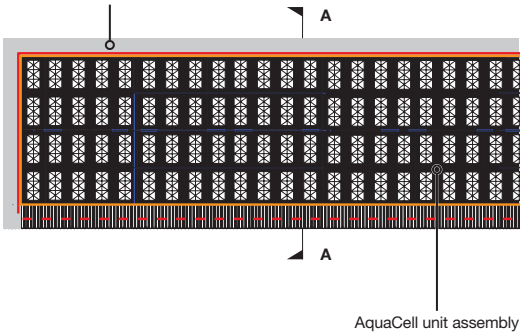


What happens to the water?

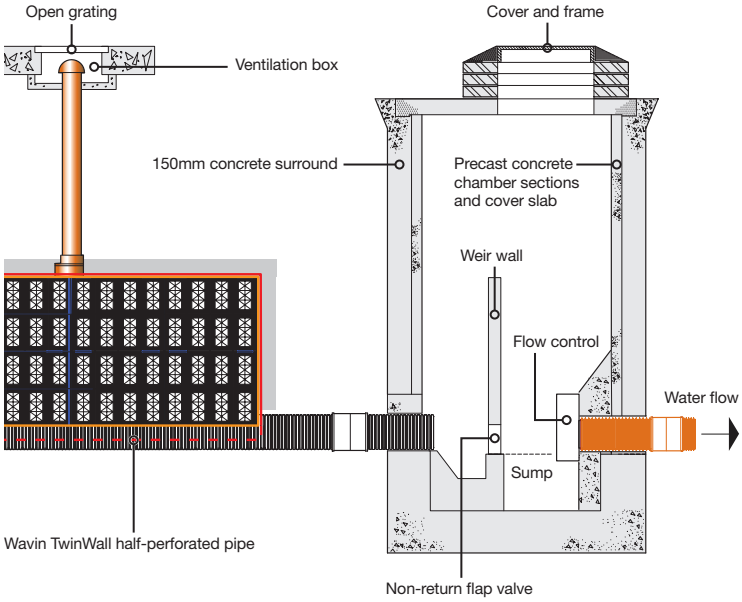
1. Control chamber fills with water, up to the top of the weir wall.
2. The water overflows the weir wall and enters the AquaCell storage assembly via the manifold connection.
3. The AquaCell storage assembly fills with water.
4. After storm event, water flows back out of the AquaCell storage assembly, finding its own level, and through the non-return flap valve at the bottom of the weir wall.
5. The water then flows through the vortex flow control valve.

Off-line storage – central pipe feed

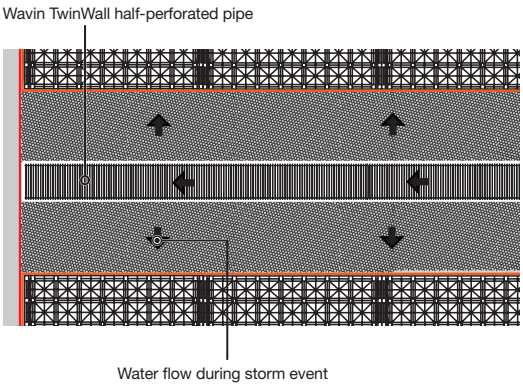
Long section

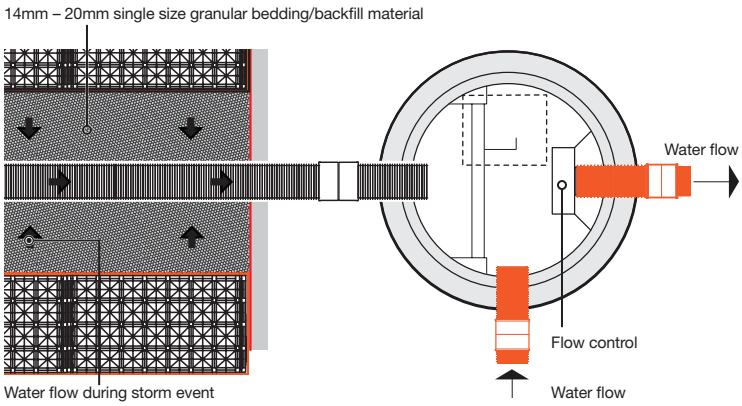


Typical vent detail

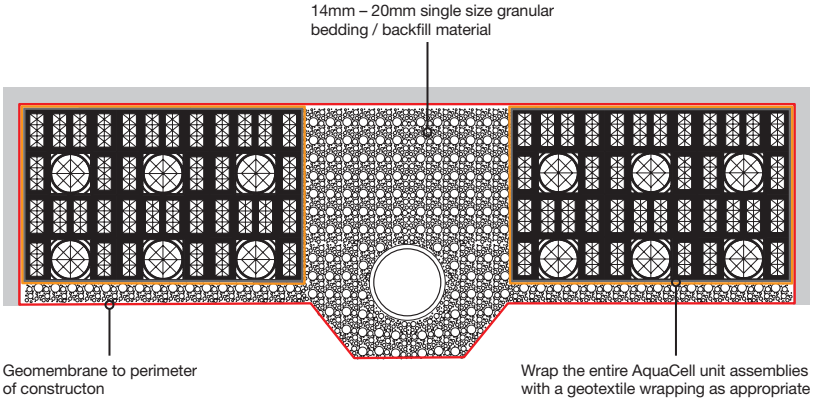


Plan





Cross section A-A

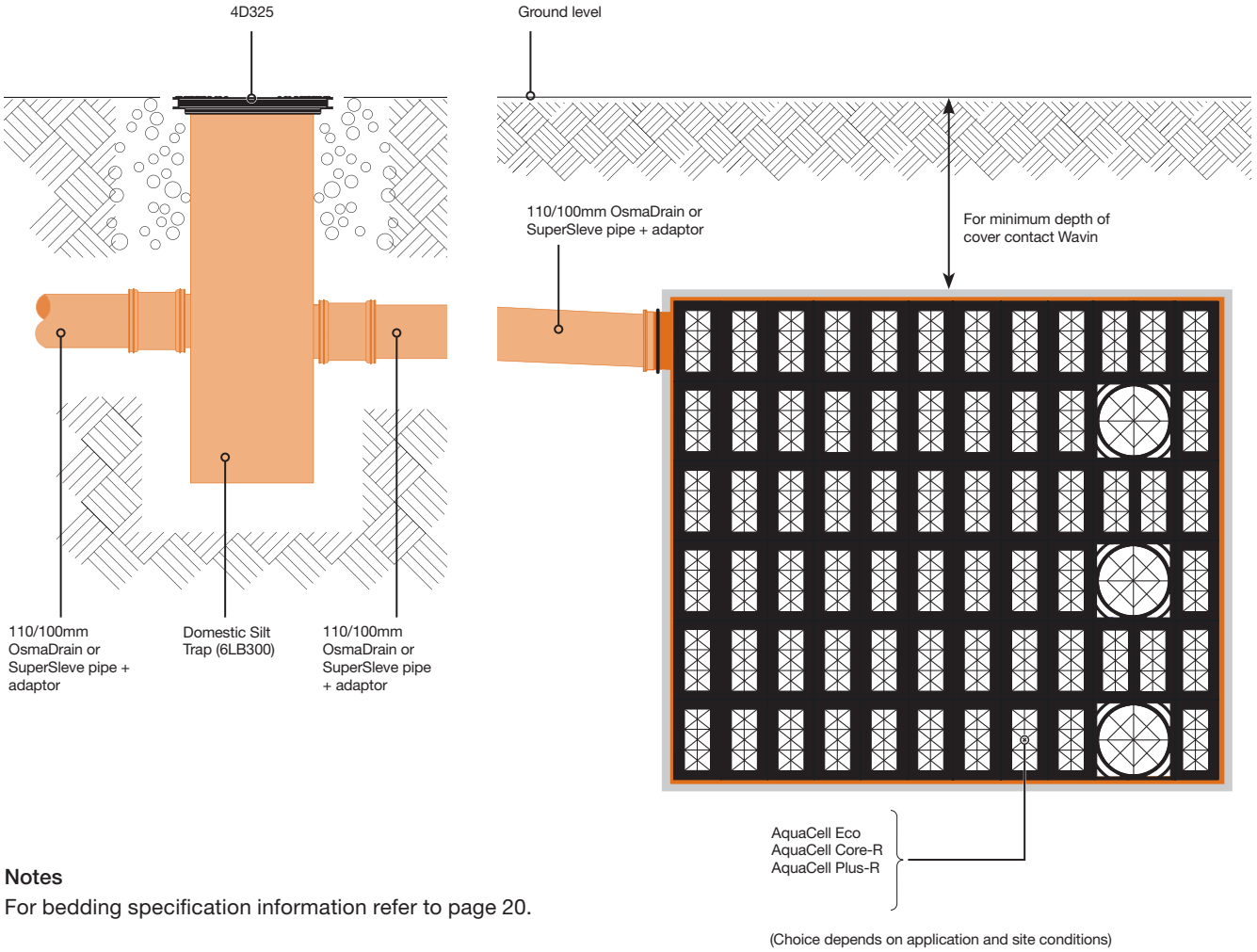


What happens to the water?

1. Control chamber fills with water, up to the top of the weir wall.
2. The water overflows the weir wall and enters the AquaCell storage assemblies via the central pipe connection and percolate's through the granular bedding material.
3. The AquaCell storage assembly fills with water.
4. After storm event, water flows back out of the AquaCell storage assemblies, finding its own level, and through the non-return flap valve at the bottom of the weir wall.
5. The water then flows through the vortex flow control valve

Soakaway with Silt Trap

Soakaway or storage tank – with Silt Trap



Notes

For bedding specification information refer to page 20.

The silt trap can be used in conjunction with a soakaway (as shown) or a storage tank.

Wavin stormwater management

To achieve optimum stormwater management

The Wavin Stormwater Management System represents a combination of specialist expertise and technology from Wavin. This is specifically focused on achieving the optimum solution for each project requiring effective and sustainable management of stormwater.

Such a solution may be entirely based on a tailored combination of our engineered systems.

In other cases, Wavin Stormwater Systems can be integrated with 'soft' SuDS techniques, such as ponds and swales, to help achieve the optimal solution.

Other Wavin stormwater systems

Channel drainage

Environmentally-friendly polyester concrete systems to cover all EN 1433 load classes. With outstanding chemical resistance and low water absorption:

- Medium duty range for applications up to C250
- Heavy duty range for D400 / F900 application

Plastic pervious paving

High performance, plastic pervious paving system, for use in all types of Sustainable Drainage systems (SuDS).

- AquaGrid 50 – for use in landscape projects
- AquaGrid 75 – for use in car parking areas

Flow control valves

The Wavin+Mosbaek range of vortex flow control valves are manufactured from stainless steel and are custom-built to meet exact site requirements:

- Tornado, Hurricane and Typhoon stainless steel flow control valves with no moving parts of power needs

Q-Bic Plus

As part of an effective SuDS solution, no other attenuation tank ticks as many boxes as Q-Bic Plus.

Designed from the ground up to be compliant with Sewers for Adoption 8, it is easy to handle, fast and simple to install, and carries BBA approval. The high void design makes it the most accessible, inspectable and cleanable attenuation tank on the market, scoring with specifiers for its design flexibility whatever the soil type, available area or load.

Anti-flood valves

- Anti-Flood Valves that comply with EN 13546-1, and Part H1– Sections 2.8-2.12 of Building Regulations

Below ground water transportation

Wavin Stormwater installations can draw from an extensive choice of plastic and clay pipe systems, including:

- OsmaDrain solid wall PVC-U pipe system
- Structured wall plastic UltraRib and TwinWall pipe systems
- SuperSleve clay pipe systems

Other options include perforated pipe for land drainage: WavinCoil plastic and HepLine clay – and a full range of Wavin Non-Entry Inspection Chambers.

The Wavin stormwater service

Precision and performance

The Wavin Technical team are ready to contribute to any stormwater management project.

This may be at the very earliest stage – or when initial plans have already been developed. There are no pre-conditions with regards to you requesting Wavin to become involved.

We are ready to:

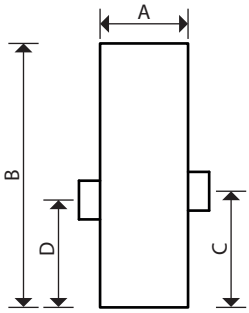
- Originate project design
- Comment on an existing design
- Help validate a specification – or, where we see an opportunity to do so, to suggest how it may be enhanced
- Check, clarify and confirm maximum cost-efficiency, performance capability and regulatory compliance

This involvement is a core part of the Wavin principle. It extends beyond the systems and components.

To discuss your stormwater management project, call 0844 856 5165 or email technical.design@wavin.co.uk.

Supplementary items

Silt Trap – domestic – for non loaded applications

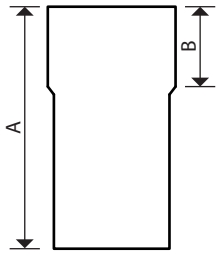


Domestic Silt Trap

- 250mm x 750mm depth
- With 110mm diameter inlet and outlet spigots
- For use with the 4D325 cover and frame

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C	D
–	6LB300	250	750	330	305

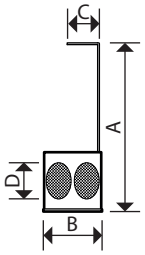


Extension Piece for 6LB300

- 250mm x 500mm depth (effective length = 335mm)

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B
–	6LB301	500	165



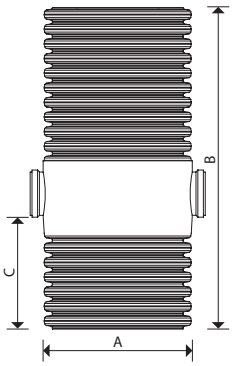
Silt Trap Bucket for 6LB300

- 200mm x 210mm depth

Material: PVC-U/Polypropylene

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C	D
–	6LB302	597	208	114	127.5

Silt Trap – trafficked



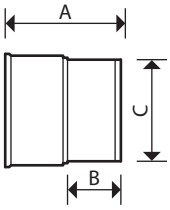
Silt Trap

- 500mm diameter x 1.25m depth

Material: Polypropylene

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C
160mm	6LB600	500	1250	450
225mm	6LB625	500	1250	450
300mm	6LB630	500	1250	450

Ancillaries

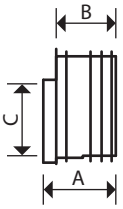


S/S Adaptor

- 6UR socket x 160mm BS EN 1401 spigot

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C
150	6UR141	180	84	160

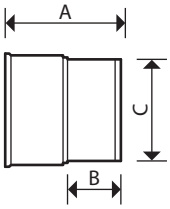


S/S Level Invert Reducer

- To 110mm OsmaDrain spigot

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C
150 x 110	6UR099	115	95	111

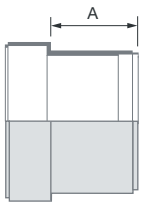


S/S Adaptor

- 6TW socket x 160mm BS EN 1401 spigot

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C
150	6TW141	180	84	160



Double Ended Spigot Adaptor

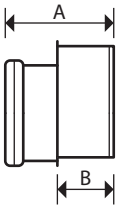
- For connecting SuperSleve pipes to OsmaDrain pipes

Material: Polyproylene

Nominal Size (mm)	Part Number	Dimensions (mm) A
100	SA15/1	65
150	SA15/2	80

Supplementary items

Ancillaries



S/S Level Invert Reducer

- To 110 OsmaDrain

Material: PVC-U

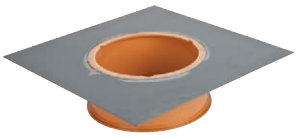
Nominal Size (mm)	Part Number	Dimensions (mm) A	B
160	6D099	127	70

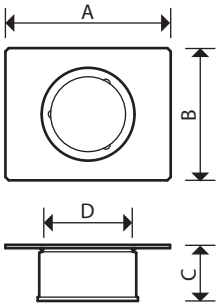
P/E Adaptor

- 160mm spigot connection

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A
160	4D916	325





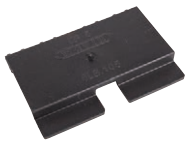
Flange Adaptor

- 6UR socket for connection of UltraRib to infiltration unit at positions other than preformed opening
- 9UR socket for connection of UltraRib to infiltration unit (can only be used with AquaCell Core-R and Plus-R)

Material: PVC-U

Nominal Size (mm)	Part Number	Dimensions (mm) A	B	C	D
150	6LB104	300	300	100	160.3
225	6LB106	500	400	120	226.5

Spares



AquaCell Clip

- For jointing all AquaCell units horizontally

Material: Polypropylene

Nominal Size (mm)	Part Number
–	6LB105

AquaCell Shear Connector

- For jointing all AquaCell units vertically

Material: Polypropylene

Nominal Size (mm)	Part Number
–	6LB102

AquaCell Plus End Cap

- For blocking off unused inlets/outlets

Material: Polypropylene

Nominal Size (mm)	Part Number
–	6LB202

Your notes

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