

AQUACELL™ Stormwater Management System

Product Code: AQUA Series

Description: Aquacell™ is a stormwater management cell designed for use in infiltration, attenuation or storage / reuse applications. Individual cells are assembled together to form an underground structure for use in commercial, industrial or residential sites.

Applications: Aquacells are suitable for a number of stormwater management applications including;

- Infiltration or soak away
- Attenuation
- Storage and reuse
- Conveyance

Assembly: Aquacells are pre-assembled during manufacture and no further assembly of the individual cells is required on site. Aquacells are clipped together horizontally using a purpose made plastic clip and vertically using a purpose made plastic shear rod. This combination provides a strong but flexible structure that is easy to assemble whilst providing versatility for structural shape.

Aquacells are wrapped in geotextile cloth for infiltration systems or seam welded geomembrane for attenuation and storage applications.

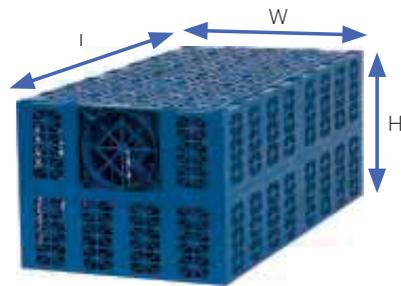
Design and Installation: Local Authority Codes of Practice should be consulted for guidance on stormwater design criteria. Alternatively contact the Iplex Technical Services Team on free-phone 0800-800-262 for more information.

Pipe Connections: Each Aquacell™ has a molded “knockout” in each end to assist the connection of inlet or outlet pipe work as required.

Limitations: Aquacells should not be used without;

- Appropriate pre-treatment to remove gross pollutants and silts
- Appropriate structural design
- Appropriate hydraulic design
- Suitable structural support

Aquacell™ Dimensions	
External Dimensions	1000mm long x 500mm wide x 400mm deep
Mass	9 kilograms
Void space (Porosity)	95%
Internal storage capacity	190 litres
Open perforations	43% to allow use in infiltration
Ultimate compressive strength at yield - vertical face	560 kN/m ²
Ultimate compressive strength at yield - horizontal face	77.5 kN/m ²



Shear connector rod



Connecting clip



PRODUCER STATEMENT

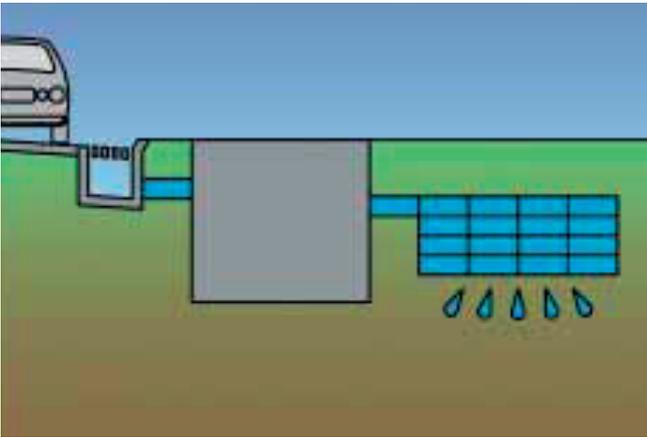
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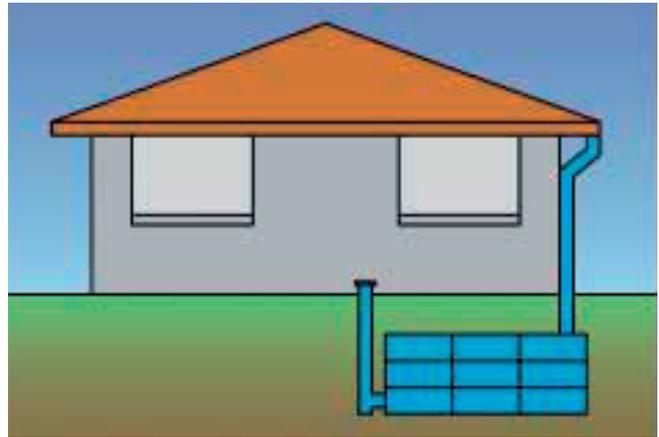
Wrapping an Aquacell™ infiltration gallery in geotextile fabric prior to backfilling.



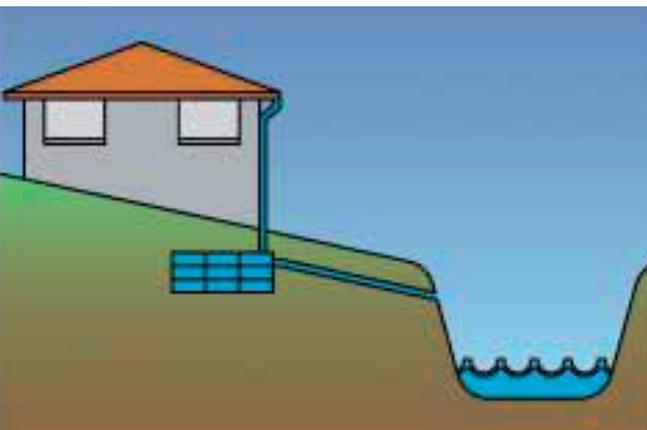
Aquacell™ attenuation and infiltration gallery under construction.



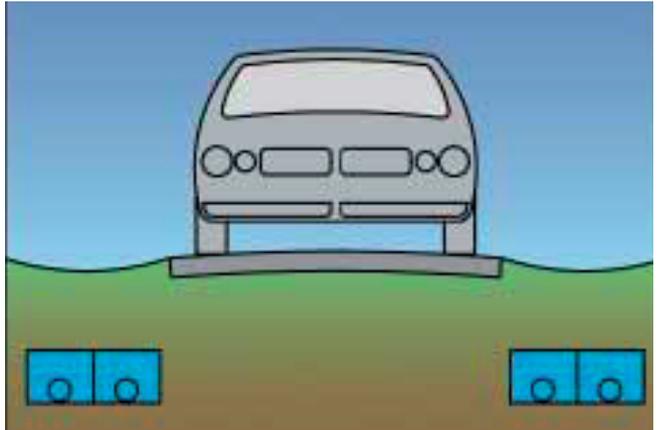
Infiltration



Storage and Reuse



Attenuation



Conveyance