

Water management solutions



Whether your scheme is adoptable or non-adoptable, we have the right solution for you; ranging from attenuation or soakaway combined with or without treatment solutions, all supported by our fabrications service that provides off-site engineered solutions for chambers and manifolds.

Stormwater attenuation and soakaway

Large diameter pipes and geocellular systems offer a versatile method of creating shallow or deep buried water storage systems, capable of holding back the impacts of rainfall events and helping to mitigate the risk of surface water flooding.

At Polypipe we understand that every project and site is different and many have significant challenges when it comes to the design and construction of an efficient and effective drainage system. That's why we have developed the industry's largest range of piped and geocellular attenuation and infiltration systems.



Ridgiform-XL large diameter pipe system

Polypipe's largest diameter plastic pipe can be used to form robust underground storage tanks, engineered to the appropriate strength and stiffness classification for your project's specifications. It combines exceptional performance with flexibility, and can adapt under settlement and traffic loads without loss of structural integrity.

- Available in diameters 750mm - 3000mm
- Excellent load bearing capability and durability
- Superior performance in areas of differential settlement
- Lighter weight for reduced plant requirements
- Can incorporate bespoke chambers, manholes and fittings prefabricated off-site
- Excellent resistance to sulphate and chemical attack

Capturing water at source

The Permavoid Geocellular System

Permavoid is a geocellular system aimed at managing surface water at source, as close to where it falls as possible. Its high strength and integrity allows it to be designed into pavement structures and means it is ideal for use on projects requiring shallow soakaway or attenuation such as in contaminated ground and in areas with high water tables. When combined with other parts of the Permavoid range, the complete system allows for the management and improvement of water quality.



Managing water at site

The Polystorm Geocellular Range

Polystorm is a range of geocellular products for use beneath both trafficked and non-trafficked surfaces. The Polystorm range is ideal for building large attenuation and soakaway structures due to its high strength and modular nature.

Advice on the design of geocellular systems is available through our dedicated technical support teams.



Water treatment

Regulations on the management of surface water through attenuation and source control are now well established. Increasingly, legislation such as the EU Water Framework Directive and the proposed national building standards for SUDS are presenting developers and designers with additional challenges in the control of surface water pollution. New standards aimed at reducing pollution levels in ground water and rivers are often based on the 'polluter pays' principle, so our range of water treatment systems are designed to intercept and extract pollution as close to source as possible.

They can all be integrated within an overall 'Roof to River' solution and can be combined to form progressively more efficient treatment depending on anticipated pollution levels.

Off-site fabrications

Providing a comprehensive service - our state-of-the-art fabrication facility is the only one of its kind in the UK - it's our role to turn your detailed design specifications into a bespoke solution to meet your precise water management requirements.

Whether it calls for specialist manifolds, bends, junctions, one-piece manholes, catchpits or flow control chambers, our team can create it, quickly, precisely and to the highest quality. We'll also deliver it in easy-to-handle, easy-to install prefabricated sections, or in the case of manholes and chambers as a one-piece unit, all to meet the project timelines you've given us.

