

Permavoid in the Urban Environment - **Urban Streetscapes**

The introduction of SuDS in urban areas allows Landscape Architects and Engineers to design multifunctional urban spaces.

The Permavoid system can help enhance natural features in built-up areas. It provides excellent source control at shallow depths, and not only manages stormwater volume, but also treats run-off. Due to its inherent strength and flexibility, it creates a structural platform on which green areas can be cultivated, irrigated and oxygenated.

By considering and integrating SuDS during the concept design stage, the Permavoid system can help make space for water in areas where such projects are, at best, challenging. The system helps provide an excellent opportunity to collect, retain, and re-use rainwater as a resource.

Key Benefits

- Control & manage surface water run-off at source
- Provide effective drainage in urban areas
- Re-use water as a precious resource
- Can be installed above a high water table
- Removes silt and hydrocarbons to protect biodiversity
- Help establish calming, tranquil spaces
- Provide a cooling effect



Strong Interlocking Raft



Beneath porous & non-porous surfaces



Source Control



Treatment



Retention

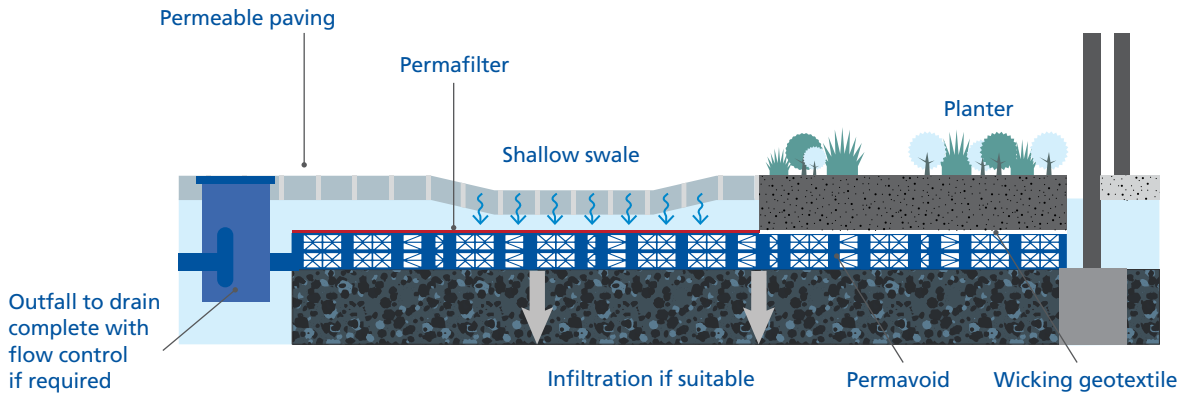


Attenuation



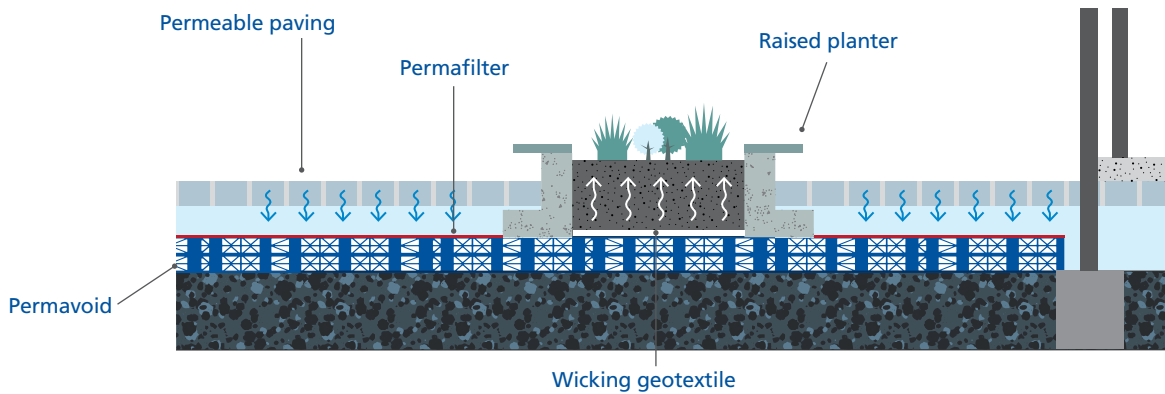
Infiltration

1 SHALLOW SWALE & PLANTER



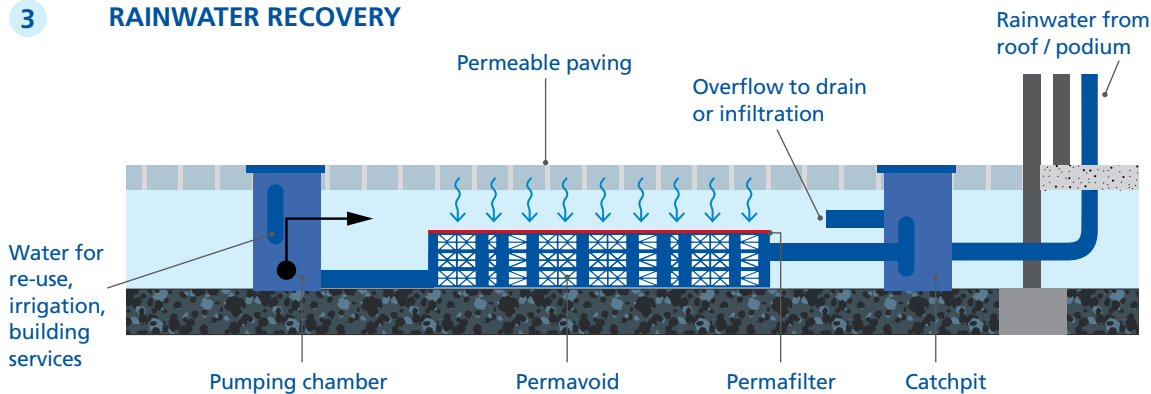
SHALLOW SWALE AND PLANTER
 Permeable surfaces can be used to attenuate run-off. Intercepting, storing and re-using surface water at source, this enhances stormwater management.

2 RAISED PLANTERS



RAISED PLANTERS
 Collected surface water can be used to irrigate planter areas through passive irrigation, providing amenity, infiltration and evapotranspiration, assisting with cooling in urban areas.

3 RAINWATER RECOVERY



RAINWATER RECOVERY
 Rainwater from adjacent buildings and porous surfaces can be intercepted and stored for non-potable water use within the building, or re-used for irrigation.



Contact Us

to find out about our Technical Workshop

Look out for our Permavoid Technical Manual, available to download from our website