### Permavoid System

## Technical Bulletin

Issue No: 6

#### November 2016 P1

### 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, detain, and re-use stormwater as a resource.

#### **Key Benefits**

- Control and 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 and is ideal for MIddle East conditions



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Water for re-use, irrigation, building services

 Overflow to drain or infiltration

Permavoid

Permafilter

Catchpit

#### **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.

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**Contact Us** to visit our Technical Centre

Pumping chamber

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

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