

St George's Park

Rainwater Harvesting

Client:	The Football Association	Roof:	Curved metal sheet
Project:	St. George's Park, Burton on Trent	Catchment Area:	~3,000m²
Main Contractor:	Bowmer & Kirkland Ltd	Rainwater Apps:	WCs
M&E Contractor:	Derry Building Services	Sustainability:	BREEAM Target-Very Good
Building Type:	National Football & Sports Centre	Built:	2012

System Requirements

Derry Building Services were awarded the design and build M&E contract for The FA's prestigious National Football Centre at Burton on Trent. The vast complex has a 230 bedroom hotel operated by Hilton and a 21,000m² sports and science building. The total site with 12 pitches is located in 130 hectares.

To enable a Very Good BREEAM assessment water reduction measures including rainwater harvesting were specified for the complex. It is estimated the rainwater harvesting will reduce WC flushing requirements by up to 50%. Air source heat pumps are used to achieve lower energy consumption and help achieve the BREEAM target.

The Ecozi rain manager is an integrated solution to meet the requirements of a category 5 break tank with twin booster pumps and logic control. The installation required just simple piping hook-ups and connection of three cables - we even ran it on mainswater prior to Ecozi commissioning. Ecozi provided commissioning of the complete system which was installed by ourselves.

Dean O'Neill
Senior Mechanical Contracts Engineer,
Derry Building Services

This prestigious project is the first Ecozi contract with Derry Building Services. The project management was first class and all contact points with Derry were straight forward. The system commissioning was completed without delay - an indicator of a quality installation first time.

Roger McEvoy
Director, Ecozi

Rainwater Harvesting Solution

Two rainwater harvesting systems; one for the hotel and one for the sports and science building were installed. The sports and science building underground rainwater tank is connected to 25% of the total roof area via syphonic drainage filtered with a pre-tank mesh filter. All of the hotel roof is connected to its own underground storage tank, also with a pre-tank filter.

Rainwater managers are used to distribute the rainwater directly to the WCs and automatically switch between mainswater back-up and rainwater. The rain-water managers are factory built and tested providing the installation team with simple piping and electrical hook-ups to one integrated unit. Maintenance is also simplified with use of a rain manager and can be completed with one person on an annual or twice-annual basis. Ecozi were employed by Derry Building Services on a supply and commission basis.

Services

- Complete rainwater harvesting package
- Rainwater harvesting tanks
- Rainwater harvesting management units
- Rainwater harvesting filtration
- Components
- Greywater recycling
- Soakaways and attenuation



Contact us today to discuss your rainwater harvesting requirements:

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