

CASE STUDY



Rainharvesting Systems Limited
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Cheltenham West Community Fire Station, Glos.



Rainwater system

- Client: Glos. Fire & Rescue Service
- Architects: Calderpeel Partnership
- 18,000 litre tank
- Wilo Inline Sump filter
- Single pump Multigo 40/06
- Header tank with booster pump

Design data

- Usage: WCs and vehicle wash
- Estimated usage: 860 litres/day
- Average annual rainfall: 800 mm
- Roof area: 800 m²
- Expected annual rainwater collection: 313,000 litres
- Capital cost: £8,000
- Completion: Autumn 2012

Other green design features

- Passive solar design,
Air-source heat pump, Sedum roof

Operating statistic

- rain water collection and usage monitoring in operation.

Fire Station for Gloucestershire Fire & Rescue Service

Cheltenham West Community Fire Station is one of four new fire stations built during 2011/12 under a PFI project for Gloucestershire Fire & Rescue Service.

Rainharvesting Systems Ltd. were chosen to supply the harvesting systems to all four buildings, where the harvested water is being used for the staff and public toilets and for washing the Services vehicles.

These new stations were built to replace two previous ones located in Cheltenham and Gloucester, in a major scheme to improve the county's ability to respond to emergencies across the region.

Each station is very different and has been designed to fit in to its location. Both visually attractive and functional, the stations are also a resource for their local communities, each having a space that is available for a variety of uses.

We have also supplied similar solutions to many other fire services throughout England and Wales.

Indirect system with break tank and booster set