

CASE STUDY



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Social housing scheme, Cheltenham, Gloucestershire



Rainwater system

- Client: Markey Construction for Cottsway Housing Association
- 18,000 L GRP tank
- Wisy WFF150 Vortex filter
- Multigo 40/08 pump with variable speed control
- Individual header tanks

Design data

- Roof area: 600 m²
- Average annual rainfall: 716 mm
- Usage: WCs in 11 houses & 2 flats
- Estimated usage: 500 litres/day
- Expected annual rainwater usage: 182,500 litres
- Capital cost: £8200
- Completion: Spring 2013

Other green design features

- Solar thermal

Residential development for Housing Association

Rainharvesting Systems Ltd. in partnership with specialist installers *Natural Power UK* devised and supplied the rainwater harvesting scheme for this social housing development.

The inclusion of the rainwater harvesting enabled the client, Cottsway Housing Association, to achieve Level 4 of the Code for Sustainable Homes.

The system is designed around a single 18,000-litre tank supplying all 13 properties on the site. The harvested water is pumped to a small individual header tank in each dwelling. The header tanks are designed to always take water from the rainwater store as long as it is available, but will then automatically revert to running from mains water if needed.

The central controls for the system are securely housed within an external, insulated and lockable enclosure and run from the landlords' power supply.

This provides an ideal solution for such a situation, as each property has its own independent back-up from the mains water supply, the header tanks require no power, and the controls are tamper-proof and are only accessed by the landlord or the maintenance contractor.

Communal system with multiple header tanks