

CASE STUDY



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Browning's Close, Eastington, Gloucestershire



Rainwater system

- Client: Markey Construction for Cottsway Housing Association
- 10,000 L GRP tank
- Wisy WFF150 Vortex filter
- Dual pumps - Multigo 40/08 with variable speed control

Design data

- Usage: WCs in 7 houses
- Estimated usage: 400 litres/day
- Average annual rainfall: 800 mm
- Roof area: 300 m²
- Expected annual rainwater collection: 146,000 litres
- Capital cost: £9500
- Completion: Autumn 2012

Other green design features

- Co2 emissions 75% reduction from current norms. Passive solar design, Building-Integrated Photovoltaics, 50% recycled materials. ????

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 by ????? Housing Association.

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

The system is designed around a single 10,000-litre tank supplying all 7 properties on the site. The harvested water is pumped to a small individual header tank in each dwelling.

The header tanks are designed to take water from the rainwater store as long as it is available, but to automatically revert to running from mains water when the main tank runs low, or in the event of power failure.

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

Communal system with multiple header tanks