

CASE STUDY



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Great Bow Yard, Langport, Somerset



Rainwater system

- 1,500 L GRP tank
- Wisey SF downpipe filter
- Single pump Multigo 40/06

Design data

- **Architects:** Stride Treglown
- **Usage:** 2 WCs and garden tap
- **Estimated usage:** 104 litres/day
- **Average annual rainfall:** 800 mm
- **Roof area:** 66 m²
- **Expected annual rainwater collection:** 27,900 Litres
- **Capital cost:** £1563
- **Completion:** Spring 2006

Other green design features

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

Operating statistic

- rain water collection and usage monitoring in operation.

Residential project for South West Eco Homes

Rainharvesting Systems Ltd. designed and provided this rainwater harvesting system for architects Stride Treglown.

The award winning competition entry on a unique, beautiful riverside location in Langport, Somerset has given Stride Treglown the opportunity to design two types of low energy housing, both in terrace form with differing orientations making the most of a natural site.

Externally the new homes use traditional materials in a contemporary way drawn from the local vernacular. One terrace features a sunspace-based passive solar design utilising a high thermal mass solution while the other uses a timber frame highly insulated lightweight solution.

Using these two housing types has allowed the client to undertake an "in use" analysis of the merits of each in a rural location. The development achieved a BREEAM EcoHomes 'Excellent' rating.