



CASE STUDY: SOUTHAMPTON UNIVERSITY ADMINISTRATION AND STUDENT SERVICES BUILDING

Rainwater harvesting system

- 15,000 L GRP underground tank
- 3x WISY WFF150 vortex filters
- Single pump Multigo 80/12
- 450 litres header tank

Design data

Usage: 21 WCs + 3 urinals

Occupancy: about 150 people

Estimated usage: 1690 litres/day

Average annual rainfall: 800 mm

Roof area: 1000 m² (flat asphalt areas and inclined glazed roof lights)

Expected annual rainwater collection: 410,000 litres

Capital cost: £4325

Estimated payback time: 5.3 years
(based Southern Water 2006 tariff)

Completion: Jan 2005

Other green design features

150 m² of Building-Integrated photovoltaics

Underground heat exchanger

Green Gowns Awards 2005

Highly commended

Sustainable Construction

Operating Statistic: rain water collection and usage

Monitoring will start shortly



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