



# Part G - Water Efficiency Calculations

From 6<sup>th</sup> April 2010 Part G Building Regulations requires all new homes and conversions to meet new water efficiency requirements. We are experts in both energy and water efficiency and therefore can provide these calculations to prove compliance.

## What are the new requirements?

Houses and conversions will now have to be specified to use less than 125 litres of potable water per person per day. 5 litres is automatically allocated for outdoor use and the remaining 120 litres for internal use.

## What do I need to submit to Building Control?

Building Control will ask to see calculations proving that the products specified will meet the overall target of less than 125litres.

## What is taken into account?

We take into account flow rates of taps and showers, the size of the baths, WC flush rates, dishwasher and washing machine water consumption etc. If a rainwater harvester or grey water harvesting is also going to be used we can take into account the amount of water that will be offset by these systems.

## Rainwater harvesters

These can significantly reduce potable water use and may be necessary if you are proposing high flow showers and larger than standard baths. The location of the property is taken into account as well as the total capture area of the harvester.

Our calculations can also be useful to show you how much water you can actually expect to save by using a rainwater/greywater harvester. This can help you make an informed decision on whether to incorporate a rainwater harvester in your scheme.

*However, providing fairly standard appliances are specified then rainwater harvesting is not normally required to comply with the new regulations – our calculations will help you to prove this to Building Control.*



## Some of our other services:

- SAP & SBEM energy calculations
- Air leakage testing
- Code for Sustainable Homes Assessments
- BREEAM Assessments
- Sustainability Statements
- Renewable Energy Evaluations
- Merton Rule Calculations
- Payback viability evaluations
- Acoustic Testing
- CPD seminars and workshops
- Energy & carbon reduction consultancy

## What are the benefits of using less water in a house?

You will not only benefit from not having to pay for as much water, there is also a heating cost benefit as less energy will be required to heat the water. Carefully chosen taps and showers will also mean that you can still get the feel of a standard flow rate.

A rainwater harvester could also mean that as much as 50% less water is used and this will also reduce foul water treatment costs, as this is normally determined by how much potable water is used.

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