



MSUSTAINABILITY

Part G Water Calculations 2-10 Bridge Street, Salisbury, SP1 2LA

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P02

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Introduction

This report outlines the proposed water fittings to meet Building Regulations Part G maximum consumption of potable water for the 3 proposed dwellings at:

2-10 Bridge Street, Salisbury, SP1 2LA

The work has been undertaken by M Sustainability on behalf of the property owners. Laura Meehan is an accredited OCDEA, Passivhaus consultant and retrofit coordinator with Stroma Certification: Stroma Number STRO016258.

The proposal is for a calculated potable water consumption of 125.33 litres per person per day. The total allowable potable water under part G is 125 litres per person per day. The calculation on the following page shows how this will be achieved within the two dwellings.

In line with AECB best practice we recommend the following fittings are aerated:

- Bathroom taps
- Showers

Aerated fittings allow it to feel like more water than is running, but still getting clean.

Dual flush for toilets to allow a lower flush volume for water only which has a smaller velocity requirement.

Where a gas boiler is used we recommend a waster water heat recovery system which can save up to 30% of the energy required for showers by using it to preheat incoming water.

That dead legs are reduced as much as possible the central water cistern should be close to main water outlets and all pipes should be insulated at least 2 metres from hot water tank to reduce heat loss and consequently increase water use.

All white goods, (washing machines and dishwashers,) are at the highest rated efficiency A++ for both water usage and electricity. Dishwashers when full use less water than washing in the sink and reduced water use in this way also reduces energy use.

Also recommended are rainwater butts for external plant watering or other non potable usage.

Table 1: Water Calculation

Installation	Unit of Measure	Capacity (or flow rate at 3bar pressure)	Use Factor	Fixed use (litres/ person/ day)	Litres/ person/ day
WC (dual flush)	Full flush volume	6.00	1.46	0.00	8.76
	Part flush volume	3.00	2.96	0.00	8.88
Taps (excluding kitchen/ utility room taps)	Flow rate (litres per minute)	2.50	1.58	1.58	5.53
Bath (where shower also present)	Capacity to overflow	160.00	0.11	0.00	17.60
Shower (where bath also present)	Flow rate (litres per minute)	9.00	4.37	0.00	39.33
Kitchen/utility room sink taps	Flow rate (litres per minute)	6.00	0.44	10.36	13.00
Washing machine	Litres per kilogram of dry load	8.17	2.10	0.00	17.16
Dishwasher	Litres per place setting	1.25	3.60	0.00	4.50
Waste disposal unit	Litres/use	0.00	3.60	0.00	0.00
Water softener	Litres/ person/day	0.00		0.80	0.00
					114.76
Normalisation Factor					104.43
External water usage					5.00
Total calculated usage			Total		109.429

Conclusions

The results show that the total potable water usage for the new dwellings meets the minimum required standard (110 litres per person per day) and therefore that the proposals meet the standards set out in Part G of the Building Regulations.

Appendix A Waste water heat recovery