



Water Efficiency Calculations

Ref No.	SAP0984
Client	Mr. & Mrs. Kirby
Project	70 Highlawn Way, Havant, Hants, PO9 5BT

1. Key Points

- Dual flush WC's with flush capacities of 6ltrs (Full Flush) and 3Ltrs (Part Flush)
- Kitchen Taps 10l/m restriction
- Other Taps 8l/m restriction
- Washing machine 8.17 L/Kg Dry load
- Dishwasher 1.25L/place setting
- Shower 9l/m
- Bath 180 litres to overflow

Assessor Name	Alex Cotterill
Accreditation No.	STRO034770

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)	6	1.46	0.00	8.76
	Part flush Volume (litres)	3	2.96	0.00	8.88
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	8.00	1.58	1.58	14.22
Bath (where shower also present)	Capacity to overflow (litres)	180.00	0.11	0.00	19.80
Shower (where bath also present)	Flow Rate (litres / minute)	9.00	4.37	0.00	39.33
Bath Only	Capacity to overflow (litres)		0.50	0.00	0
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	10.00	0.44	10.36	14.76
Washing Machine	(Litres/kg dry load)	8.17	2.1	0.00	17.16
Dishwasher	(Litres/place setting)	1.25	3.6	0.00	4.50
Waste disposal unit	(Litres/use)	☐ Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
(5)	Total Calculated Use (litres/person/day) = SUM(column 4)				127.41
(6)	Contribution from greywater (litres/person/day)				0
(7)	Contribution from rainwater (litres/person/day)				0
(8)	Normalisation factor				0.91
(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)				115.94
(10)	External water use				5.0
(11)	Total water consumption (Building Regulation 17.4) = (9)+(10) (litres/person/day)				120.9

Installation Type	Make/Model (mandatory)	Litres/Person/Day
WC (dual flush)		17.64
Taps		14.22
Baths (shower(s) present)		19.80
Showers (bath(s) present)		39.33
Kitchen Taps		14.76
Washing Machines		17.16
Dishwasher		4.50



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