

Water Efficiency Calculations



Ref No.	SAP03588
Client	Tom Peters
Project	41 Sinah Lane, Hayling Island PO11 0HJ

1. Key Points

- Dual flush WC's with flush capacities of 6ltrs (Full Flush) and 4.0Ltrs (Part Flush).
- Kitchen Taps 8.0 l/m
- Other Taps 8.0 l/m
- Washing machine 7.59 L/Kg Dry load.
- Dishwasher 1.25L/place setting.
- Bath N/A
- Shower 8.0 l/m

Assessor Name	Calum Dunn
Accreditation No.	AV68-0001

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)	4	2.96	0.00	11.84
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)		0.11	0.00	0
Shower (where bath also present)	Flow Rate(litres / minute)		4.37	0.00	0
Bath Only	Capacity to overflow(litres)		0.50	0.00	0
Shower Only	Flow Rate (litres/minute)	8.00	5.60	0.00	44.80
Kitchen/Utility room sink taps	Flow rate (litres/minute)	8.00	0.44	10.36	13.88
Washing Machine	(Litres/kg dry load)	7.59	2.1	0.00	15.94
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)			113.94
	(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)			103.69
	(10)	External water use			5.0
	(11)	Total water consumption (Building Regulation 17.K) = (9)+(10)(litres/person/day)			108.7

Installation Type	Make/Model (mandatory)	Litres/Person/Day
WC (dual flush)		20.6
Taps		14.22
Showers Only		44.80
Kitchen Taps		13.88
Washing Machines		15.94
Dishwasher		4.50



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