



Hatches House

As-Constructed Water Calculator Output (Part G)

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Table 1: The water calculator

Installation Type	Unit of measure	Capacity / flowrate	Use factor	Fixed use (l/person/day)	Litres/person/day = [(1)*(2)]+(3) (4)
		(1)	(2)	(3)	
WC (single flush)	Flush volume (litres)		4.42	0	
WC (dual flush)	Full flush volume (litres)		1.46	0	
	Part flush volume (litres)		2.96	0	
WCs (multiple fittings)	Average effective flushing volume (litres)	2.99	4.42	0	13.1937
Taps (exc kitchen taps)	Flow rate (l/min)	5.00	1.58	1.58	9.48
Bath (where shower also present)	Capacity to overflow (l)		0.11	0	
Shower (where bath also present)	Flow rate (l/min)		4.37	0	
Bath only	Capacity to overflow (l)		0.5	0	
Shower only	Flow rate (l/min)	8	5.6	0	44.8
Kitchen sink taps	Flow rate (l/min)	8.00	0.44	10.36	13.88
Washing machine	l/kg dry load	6.00	2.1	0	12.6
Dishwasher	l/place setting	0.95	3.6	0	3.42
Waste disposal unit	l/use	0	3.08	0	0
Water softner	l/person/day	0	1	0	0
	(5)	Total calculated use (l/person/day) = Σ [column (4)]			97.37
	(6)	Contribution from greywater (l/person/day) from Table 4.6			0
	(7)	Contribution from rainwater (l/person/day) from Table 5.5			0
	(8)	Normalisation factor			0.91
	(9)	Total water consumption (CSH) = [(5)-(6)-(7)]*(8) (l/person/day)			88.61
	(10)	External water use			
	(11)	Total water consumption (Part G) = (9)+(10) (l/person/day)			88.61

Table 2: Consumption calculator for multiple fittings for new dwellings

Taps (excluding kitchen sink taps)			
Tap fitting type	Flow rate (l/min)	Quantity (No.)	Total per fitting type =(a)*(b) (c)
	(a)	(b)	(c)
1	5	4	20
2			
3			
4			
Total (sum of all quantities)		(d)	4.00
Total (sum of all totals per fitting type)			(e)
			20.00
Average flow rate (l/min)		=(e)/(d)	5.00
Maximum flow rate (l/min)			(f)
			5.00
Proportionate average flow rate (l/min)			3.50
Flow rate to use for table 1 (l/min)			5.00

Table 2: Consumption calculator for multiple fittings for new dwellings

Baths			
Bath fitting type	Capacity to overflow (l)	Quantity (No.)	Total per fitting type
	(a)	(b)	=(a)*(b) (c)
1			
2			
3			
4			
Total (sum of all quantities)		(d)	0.00
Total (sum of all totals per fitting type)			(e)
			0.00
Average capacity to overflow (l)		=(e)/(d)	0.00
Highest capacity to overflow (l)		(f)	0.00
Proportionate capacity to overflow (l)		=[(f)*0.7]	0.00
Capacity to overflow to use for table 1 (l)			0.00

Table 2: Consumption calculator for multiple fittings for new dwellings

Taps (Kitchen/Utility room sink)			
Tap fitting type	Flow rate (l/min)	Quantity (No.)	Total per fitting type =(a)*(b) (c)
	(a)	(b)	(c)
1	8	2	16
2			
3			
4			
Total (sum of all quantities)		(d)	2.00
Total (sum of all totals per fitting type)			(e)
			16.00
Average flow rate (l/min)		=(e)/(d)	8.00
Highest flow rate (l/min)		(f)	8.00
Proportionate flow rate (l/min)		=[(f)*0.7]	5.60
Flow rate to use for table 1 (l/min)			8.00

Table 2: Consumption calculator for multiple fittings for new dwellings

Dishwashers			
Dishwasher fitting type	Litres per place setting (l)	Quantity (No.)	Total per fitting type =(a)*(b) (c)
1	0.95	1	0.95
2			
3			
4			
Total (sum of all quantities)		(d) 1.00	
Total (sum of all totals per fitting type)			(e) 0.95
Average litres per place setting (l)		=(e)/(d)	0.95
Highest litres per place setting (l)		(f)	0.95
Proportionate litres per place setting (l)			0.67
litres per place setting to use for table 1 (l)			0.95

Table 2: Consumption calculator for multiple fittings for new dwellings

Washing machines			
Washing machine type	Litres per kg of dry load (l)	Quantity (No.)	Total per fitting type =(a)*(b) (c)
	(a)	(b)	(c)
1	6	1	6
2			
3			
4			
Total (sum of all quantities)		(d)	1.00
Total (sum of all totals per fitting type)			(e)
Average litres per kg of dry load (l)			=(e)/(d)
Highest litres per kg of dry load (l)			(f)
Proportionate litres per kg of dry load (l)			=[(f)*0.7]
litres per kg of dry load to use for table 1 (l)			6.00

Table 2: Consumption calculator for multiple fittings for new dwellings

Showers			
Shower fitting type	Flow rate (l/min)	Quantity (No.)	Total per fitting type =(a)*(b) (c)
	(a)	(b)	
1	8	4	32
2			
3			
4			
Total (sum of all quantities)		(d)	4.00
Total (sum of all totals per fitting type)			(e)
			32.00
Average flow rate (l/min)		=(e)/(d)	8.00
Highest flow rate (l/min)		(f)	8.00
Proportionate average flow rate (l/min)			5.60
Flow rate to use for table 1 (l/min)			8.00