

Water Efficiency Calculator for New dwellings	
Project:	Plot 1 - Garage Court R/O 66-74 Farmlands
Address:	Joel Street, Eastcote Pinner
No. of bedrooms:	2 Bedroom
Date:	16/07/2026

Table 1: The water calculator for new dwellings					
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)
WCs (multiple fittings)	Average flush volume (litres)	3.1	4.42	0.00	13.5
Basin taps (excluding kitchen/ utility room taps)	Flow rate (litres/minute)	7.0	1.58	1.58	12.6
Bath (where shower also present)	Capacity to overflow (litres)	180.0	0.11	0.00	19.8
Shower (where bath also present)	Flow rate (litres/minute)	8.0	4.37	0.00	35.0
Bath only	Capacity to overflow (litres)	0.0	0.50	0.00	0.0
Shower only	Flow rate (litres/minute)	0.0	5.60	0.00	0.0
Sink taps (Kitchen/utility room)	Flow rate (litres/minute)	9.2	0.44	10.36	14.4
Washing machine	Litres/kg dry load	7.0	2.10	0.00	14.7
Dishwasher	Litres/place setting	1.3	3.60	0.00	4.7
Waste disposal unit	Litres/use	0	3.08	0.00	0.0
Water softener	Litres/person/ day	0	1.00	0.00	0.0
	(5)	Total calculated use (litres/person/day) = (Sum column 4)			114.7

	(6)	Contribution from greywater (litres/person/day) from table 4.6	0.0
	(7)	Contribution from rain water (litres/person/day) from table 5.5	0.0
	(8)	Normalisation factor	0.91
	(9)	Total water consumption (Code for Sustainable Homes) = [(5)-(6)-(7)]x(8) (litres/person/day)	104.4

	(10)	External water use	5.0
	(11)	Total water consumption (Building Regulation 17.K) = (9)+(10) (litres/person/day)	109.4

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2.1 Consumption calculator for Basin taps (Excluding Kitchen sink taps)				
Tap type fitting	Flow rate (litres/min) (a)	Quantity (No.) (b)	Total per fitting type (c) = (a) x (b)	Notes
1	7	3	21.0	Model TBC - Flow restrictor fitted if necessary.
2			0.0	
3			0.0	
4			0.0	
5			0.0	
Total (Sum of all quantities) (d)		3		
Total (Sum of totals per fitting type) (e)			21.0	
Average flow rate (Litres/min) (e)/(d)=			7.0	
Max. flow rate (Litres/min) (f)			7.0	
Proportionate flow rate [(f)x0.7]=			4.9	

2.2 Consumption calculator for Baths				
Bath fitting type	Capacity to overflow (litres) (a)	Quantity (No.) (b)	Total per fitting type (c) = (a) x (b)	Notes
1	180	1	180.0	Model TBC - Not to exceed 180litres capacity to overflow.
2			0.0	
3			0.0	
4			0.0	
5			0.0	
Total (Sum of all quantities) (d)		1		
Total (Sum of totals per fitting type) (e)			180.0	
Average capacity to overflow (Litres) (e)/(d)=			180.0	
Highest capacity to overflow (Litres) (f)			180.0	
Proportionate capacity to overflow [(f)x0.7]=			126.0	

2.3 Consumption calculator for Sink taps (Kitchen/Utility room sink)				
Tap type fitting	Flow rate (litres/min) (a)	Quantity (No.) (b)	Total per fitting type (c) = (a) x (b)	Notes
1	10	1	10.0	Model TBC - Flow restrictor fitted if necessary.
2	8.4	1	8.4	
3			0.0	Model TBC - Based on Qooker Flex Pro 3 E (without reducing valve).
4			0.0	
5			0.0	
Total (Sum of all quantities) (d)		2		
Total (Sum of totals per fitting type) (e)			18.4	
Average flow rate (Litres/min) (e)/(d)=			9.2	
Highest flow rate (Litres/min) (f)			10.0	
Proportionate flow rate [(f)x0.7]=			7.0	

2.4 Consumption calculator for Dishwasher				
Type of dishwasher	Litres per place setting (a)	Quantity (No.) (b)	Total per fitting type (c) = (a) x (b)	Notes
1	1.3	1	1.3	Model TBC - Based on 13 place settings and 10 litres per cycle.
2			0.0	
3			0.0	
4			0.0	
5			0.0	
Total (Sum of all quantities) (d)		1		
Total (Sum of totals per fitting type) (e)			1.3	
Average litres per place setting (e)/(d)=			1.3	
Highest litres per place setting (f)			1.3	
Proportionate litres per place [(f)x0.7]=			0.9	

2.5 Consumption calculator for Washing Machines				
Type of washing machine	Litres per kg dry load (a)	Quantity (No.) (b)	Total per fitting type (c) = (a) x (b)	Notes
1	7.0	1	7.0	Model TBC - Based on 10kg load and 70litres per cycle.
2			0.0	
3			0.0	
4			0.0	
5			0.0	
Total (Sum of all quantities) (d)		1		
Total (Sum of totals per fitting type) (e)			7.0	
Average litres per kg dry load (e)/(d)=			7.0	
Highest litres per kg dry load (f)			7.0	
Proportionate litres per kg dry load [(f)x0.7]=			4.9	