

Water Use Assessment

Calculation Report

Certificate Ref: BE44581673 Performance Target: 110 (litres / person / day)

Issued: 20 January 2022 Building Regulations Part G - 1101

Client: Burrington Estates Number of Bedrooms: 2

Project Details: Hempton Road - Plot 20 3 Occupancy for Calculation Purposes

Installation Type	Unit	Capacity/	Use Factor	Fixed use	Total Use
		Flow Rate		(l/p/day)	(l/p/day)
WC Single Flush	Volume (I)	0.00	4.42	0.00	0.00
WC Dual Flush	Full Flush (I)	0.00	1.46	0.00	0.00
WC Dual Flush	Pt Flush (I)	0.00	2.96	0.00	0.00
WC's (Multiple)	Volume (I)	4.00	4.42	0.00	17.68
Taps Exc. Kitchen	Flow Rate	5.00	1.58	1.58	9.48
Bath (shower present)	(I/s)	156.00	0.11	0.00	17.16
Shower (bath present)	(I/s)	8.00	4.37	0.00	34.96
Bath Only	(1)	0.00	0.50	0.00	0.00
Shower Only	(I/s)	0.00	5.60	0.00	0.00
Kitchen Taps	(I/s)	10.20	0.44	10.36	14.85
Washing Machines	(I/kgdry)	7.43	2.10	0.00	15.60
Dishwashers	(I/place)	0.98	3.60	0.00	3.53
Waste Disposal	(I/s)	0.00	3.08	0.00	0.00
Water Softener	(I/s)	0.00	1.00	0.00	0.00
Total Calculated Water Use (I/p/day)	'				113.26
Grey/Rainwater Reused (I)					0.00
Normalisation Factor					0.91
External Water Use Allowance (I)					5.00
Total Consumption Part G (I/p/day)					108.07

Part G Reg Assessment Result Pass √

The calculation methodology uses the water consumption figures provided from manufacturers' product details. Where details have not been provided, assumed figures have been used to achieve compliance. These must be met in order to satisfy the Part G Calculation for Hempton Road - Plot 20. The calculation methodology is to be used to assess compliance against the water performance targets in Regulation 36. It is not a design tool for water supply and drainage systems. It is also not capable of calculating the actual potable water consumption of a new dwelling. Behaviour and changing behaviour can also have an effect on the amount of potable water used throughout a home.

Appliance/Usage Details

pp							
Taps (Excluding Kitchen	Taps)			Showers			
Tap Fitting Type	Flow Rate	Quantity	Total per	Shower fitting	Flow Rate	Quantity	Total per
	Litres/Min	(No.)	Fitting type	Type	Litres/Min	(No.)	Fitting type
Bathroom sink mixer taps	5	2	10.00	Shower above bath	8	1	8.00
			0.00	Shower	8	0	0.00
			0.00				0.00
			0.00				0.00
			0.00				0.00
			0.00				0.00
Total No. of Fittings (No.)			2	Total No. of Fittings (No.)			1
Total Flow (I/s)			10.00	Total Flow (I/s)	8.00		
Maximum Flow (I/s)			5.00	Maximum Flow (I/s)	8.00		
Average Flow (I/s)			5.00	Average Flow (I/s)			8.00
Weighted Average Flow (I	l/s)		3.50	Weighted Average Flow (I/	5.60		
Flow for Calculation (I/s)			5.00	Flow for Calculation (I/s)			8.00
Baths				WCs			
Bath Type	Capacity to	Quantity	Total per		Full Flush	Part Flush	Quantity (No)
	Overflow	(No.)	Fitting type	WC Type	Volume	Volume	
Bath	156	1	156.00	Dual flush toilet	6	3	2
			0.00				

Baths			
Bath Type	Capacity to	Quantity	Total per
	Overflow	(No.)	Fitting type
Bath	156	1	156.00
			0.00
			0.00
			0.00
Total No. of Fittings (No.)	1		
Total Capacity (I)			156.00
Maximum Capacity (I)			156.00
Average Capacity (I)			156.00
Weighted Average Capaci	ty (I)		109.20
Capacity for Calculation (I)		156.00

WCs			
	Full Flush	Part Flush	Quantity (No)
WC Type	Volume	Volume	
Dual flush toilet	6	3	2
	•		•

Total number of fittings	2
Average effective flushing volume	4.00

Dishwashers			
Dishwasher Type	L per Place	Quantity	Total per
	Setting	(No.)	Fitting type
Dishwasher	0.98	1	0.98
			0.00
Total No. of Fittings (No.)			1
Total Consumption (I)	0.98		
Maximum Consumption (I	0.98		
Average Consumption (I/s	0.98		
Weighted Average Consu	0.69		
Consumption for Calculat	0.98		

	Washing Machines			
	Washing Machine	L per Kg	Quantity	Total per
	Type	Dry Load	(No.)	Fitting type
	Washing Machine	7.43	1	7.43
				0.00
	Total No. of Fittings (No.)			1
	Total Consumption (I)			7.43
	Maximum Consumption (I)			7.43
	Average Consumption (I/s)	7.43		
Weighted Average Consumption (I)				5.20
	Consumption for Calculation	on (I/s)		7.43

Kitchen Taps			
Tap Fitting Type	Flow Rate	Quantity	Total per
	Litres/Min	(No.)	Fitting type
Kitchen Tap	10.2	1	10.20
			0.00
			0.00
Total No. of Fittings (No.)			1
Total Flow (I/s)			10.20
Maximum Flow (I/s)			10.20
Average Flow (I/s)			10.20
Weighted Average Flow (I	/s)		7.14
Flow for Calculation (I/s)			10.20

Other Fittings		
Waste Disposal Y/N	Ν	
Water softener		
Consumption beyond 4% I/	0.00	
Use of grey water and harvested rainy	nter	

Total Grey water from WHB taps (I)	0.00
Total Available Grey Water Supply (I)	156.36
Possible Demand (I)	99.85
Grey/Rain Installed Capacity (I)	0.00
Figure for Calculation lit/person/day	0.00



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