



Water Use Assessment

Design Stage - Calculation Report

Certificate Ref: BE44967752 Performance Target: 110 (litres / person / day)

Issued: 01 February 2023 Building Regulations Part G - 110l

Hempton Road - Phase 2 - HT C Number of Bedrooms: 3

Burrington Estates Occupancy for Calculation Purposes 4

Design Stage

Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (I/p/day)	Total Use (I/p/day)
WC's	Volume (I)	3.50	4.42	0.00	15.47
Taps Exc. Kitchen	Flow Rate	5.00	1.58	1.58	9.48
Baths	(1)	180.00	0.11	0.00	19.80
Showers	(I/s)	8.00	4.37	0.00	34.96
Kitchen Taps	(I/s)	8.00	0.44	10.36	13.88
Washing Machines	(I/kgdry)	8.17	2.10	0.00	17.16
Dishwashers	(l/place)	1.25	3.60	0.00	4.50
Waste Disposal	(I/s)				0.00
Water Softener	(I/s)				0.00
Total Calculated Water Use (I/p/day)					115.25
Grey/Rainwater Reused (I)					0.00
Normalisation Factor					0.91
Total Water Consumption (I/p/day)					104.88
External Water Use Allowance (I)					5.00
Total Consumption Part G (I/p/day)					109.88
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 - Phase 2 - HT C. 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

Taps (Excluding Kitchen T	「aps)			Showers				
Tap Fitting Type	Flow Rate	Quantity	Total per	Shower fitting	Flow Rate	Quantity	Total per	
5 7 T	Litres/Min	(No.)	Fitting type	Type	Litres/Min	(No.)	Fitting type	
Bathroom sink mixer taps		4	20.00	Shower over Bath	8	, ,	0 /1	
				Shower	8	3	24.00	
Total No. of Fittings (No.)			4	Total No. of Fittings (No.)			3	
Total Flow (I/s)			20.00	Total Flow (I/s)			24.00	
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/s)			3.50	Weighted Average Flow (I/s)			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	180	1	180.00	Dual flush toilet	4.5	3	4	
Total No. of Fittings (No.)			1					
Total Capacity (I) Maximum Capacity (I)			180.00	Total number of fittings				
			10000					
			180.00	Average effective flushing	volume		3.50	
Average Capacity (I)			180.00	Average effective flushing	volume		3.50	
Average Capacity (I) Weighted Average Capaci			180.00 126.00	Average effective flushing	volume		3.50	
Average Capacity (I)			180.00	Average effective flushing	volume		3.50	
Average Capacity (I) Weighted Average Capacity Capacity for Calculation (I Dishwashers			180.00 126.00 180.00	Washing Machines				
Average Capacity (I) Weighted Average Capaci Capacity for Calculation (I	L per Place	Quantity	180.00 126.00 180.00	Washing Machines Washing Machine	L per Kg	Quantity	Total per	
Average Capacity (I) Weighted Average Capacity Capacity for Calculation (I Dishwashers Dishwasher Type	L per Place Setting	(No.)	180.00 126.00 180.00 Total per Fitting type	Washing Machines Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type	
Average Capacity (I) Weighted Average Capacity Capacity for Calculation (I Dishwashers	L per Place		180.00 126.00 180.00	Washing Machines Washing Machine	L per Kg		Total per	
Average Capacity (I) Weighted Average Capacity Capacity for Calculation (I Dishwashers Dishwasher Type Dishwasher	L per Place Setting	(No.)	180.00 126.00 180.00 Total per Fitting type 1.25	Washing Machines Washing Machine Type Washing Machine	L per Kg Dry Load		Total per Fitting type 8.17	
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Average Capacity (I) Weighted Average Capacity for Calculation (I Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/S	L per Place Setting 1.25	(No.)	180.00 126.00 180.00 Total per Fitting type 1.25 1.25 1.25 1.25	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s	L per Kg Dry Load 8.17		Total per Fitting type 8.17 1 8.17 8.17 8.17	
Average Capacity (I) Weighted Average Capacity for Calculation (I Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I	L per Place Setting 1.25	(No.)	180.00 126.00 180.00 Total per Fitting type 1.25 1 1.25	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I)	L per Kg Dry Load 8.17 8.17		Total per Fitting type 8.17 1 8.17 8.17	
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Average Capacity (I) Weighted Average Capacity for Calculation (II Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (II/S) Weighted Average Consumption for Calculat Kitchen Taps	L per Place Setting 1.25)) s) mption (I) ion (I/s)	(No.) 1	180.00 126.00 180.00 Total per Fitting type 1.25 1.25 1.25 0.88 1.25	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I) Average Consumption (I/s Weighted Average Consur Consumption for Calculation	L per Kg Dry Load 8.17 8.17	(No.) 1	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72	
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Average Capacity (I) Weighted Average Capacity for Calculation (II Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s) Weighted Average Consu Consumption for Calculat Kitchen Taps Tap Fitting Type	L per Place Setting 1.25) s) mption (I) ion (I/s)	Quantity (No.)	180.00 126.00 180.00 Total per Fitting type 1.25 1 1.25 1.25 0.88 1.25 Total per Fitting type	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s Weighted Average Consur Consumption for Calculati Other Fittings Waste Disposal Y/N Water softener	L per Kg Dry Load 8.17 8.17) mption (I) fon (I/s)	(No.) 1	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72	
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