



Water Use Assessment

Design Stage - Calculation Report

Certificate Ref: BE44967571 Performance Target: 110 (litres / person / day)

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

Hempton Road - Phase 2 - HT S1 Number of Bedrooms: 2

Burrington Estates Occupancy for Calculation Purposes 3

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)		0.11	0.00	13.86
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)		-	-		109.31
Grey/Rainwater Reused (I)					0.00
Normalisation Factor					0.91
Total Water Consumption (I/p/day)					99.47
External Water Use Allowance (I)					5.00
Total Consumption Part G (I/p/day)					104.47
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 S1. 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.



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Appliance/Usage Details

Taps (Excluding Kitchen	Taps)			Showers			
Tap Fitting Type	Flow Rate	Quantity	Total per	Shower fitting	Flow Rate	Quantity	Total per
5 P	Litres/Min	(No.)	Fitting type	Type	Litres/Min	(No.)	Fitting type
Bathroom sink mixer taps		2	10.00	Shower over Bath	8	, ,	0 71
				Shower	8	1	8.00
Total No. of Fittings (No.)			2	Total No. of Fittings (No.)			1
Total No. of Fittings (No.)			10.00	Total No. of Fittings (No.) Total Flow (I/s)			8.00
Total Flow (I/s) 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)	/c)		5.60	
Flow for Calculation (I/s)		5.00	Flow for Calculation (I/s)	(5)		8.00	
FIOW FOR Calculation (1/5)			3.00	Flow for Calculation (1/5)			0.00
Baths	C	0 1:1	T	WCs	E 11.E' '	D - E '	0 111 /21
Bath Type	Capacity to	Quantity	Total per	MC Turas	Full Flush	Part Flush	Quantity (No
D	Overflow	(No.)	Fitting type	WC Type	Volume	Volume	0
Bath	180			Dual flush toilet	4.5	3	2
Total No. of Fittings (No.)							
Total Capacity (I)				Total number of fittings			2
				Average effective flushing	volume		3 50
Maximum Capacity (I)				Average effective flushing	volume		3.50
Maximum Capacity (I) Average Capacity (I)	ity (I)			Average effective flushing	volume		3.50
Maximum Capacity (I)				Average effective flushing	volume		3.50
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Average effective flushing Washing Machines	volume		3.50
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers		Quantity	Total per		volume L per Kg	Quantity	3.50 Total per
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers	L per Place Setting	Quantity (No.)	Total per Fitting type	Washing Machines		Quantity (No.)	Total per
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers Dishwasher Type	L per Place			Washing Machines Washing Machine	L per Kg		Total per
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher	L per Place Setting 1.25	(No.)	Fitting type 1.25	Washing Machines Washing Machine Type Washing Machine	L per Kg Dry Load	(No.)	Total per Fitting type 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.)	L per Place Setting 1.25	(No.)	Fitting type 1.25 1	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.)	L per Kg Dry Load	(No.)	Total per Fitting type 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I)	L per Place Setting 1.25	(No.)	Fitting type 1.25 1 1.25	Washing Machines Washing Machine Type Washing Machine Total No. of Fittings (No.) Total Consumption (I)	L per Kg Dry Load 8.17	(No.)	Total per Fitting type 8.17 1 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capac Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (L per Place Setting 1.25	(No.)	1.25 1 1.25 1.25 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	(No.)	Total per Fitting type 8.17 1 8.17 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s	L per Place Setting 1.25	(No.)	1.25 1 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) Average Consumption (I/s)	L per Kg Dry Load 8.17	(No.)	Total per Fitting type 8.17 1 8.17 8.17 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s) Weighted Average Consumption (I/s)	L per Place Setting 1.25	(No.)	1.25 1.25 1.25 1.25 1.25 0.88	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	L per Kg Dry Load 8.17 8.17	(No.)	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/s Weighted Average Consumption (I/s)	L per Place Setting 1.25	(No.)	1.25 1 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) Average Consumption (I/s)	L per Kg Dry Load 8.17 8.17	(No.)	Total per Fitting type 8.17 1 8.17 8.17 8.17
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/S) Weighted Average Consumption for Calculate Kitchen Taps	L per Place Setting 1.25 I) s) Imption (I) tion (I/s)	(No.) 1	1.25 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 Calculati	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
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/S) Weighted Average Consumption for Calculation	L per Place Setting 1.25 I) s) umption (I) tion (I/s)	(No.) 1 Quantity	1.25 1 1.25 1.25 1.25 1.25 0.88 1.25 Total per	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	L per Kg Dry Load 8.17 8.17	(No.)	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/S) Weighted Average Consumption for Calculate Kitchen Taps Tap Fitting Type	L per Place Setting 1.25 I) s) Imption (I) tion (I/s)	(No.) 1	1.25 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 Calculati	L per Kg Dry Load 8.17) mption (I) on (I/s)	(No.) 1	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72
Maximum Capacity (I) Average Capacity (I) Weighted Average Capacity for Calculation (Dishwashers Dishwasher Type Dishwasher Total No. of Fittings (No.) Total Consumption (I) Maximum Consumption (I/S) Weighted Average Consumption for Calculate Kitchen Taps Tap Fitting Type Kitchen Tap	L per Place Setting 1.25 I) s) umption (I) tion (I/s) Flow Rate Litres/Min	Quantity (No.)	1.25 1.25 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) mption (I) on (I/s)	(No.) 1	Total per Fitting type 8.17 1 8.17 8.17 8.17 5.72
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