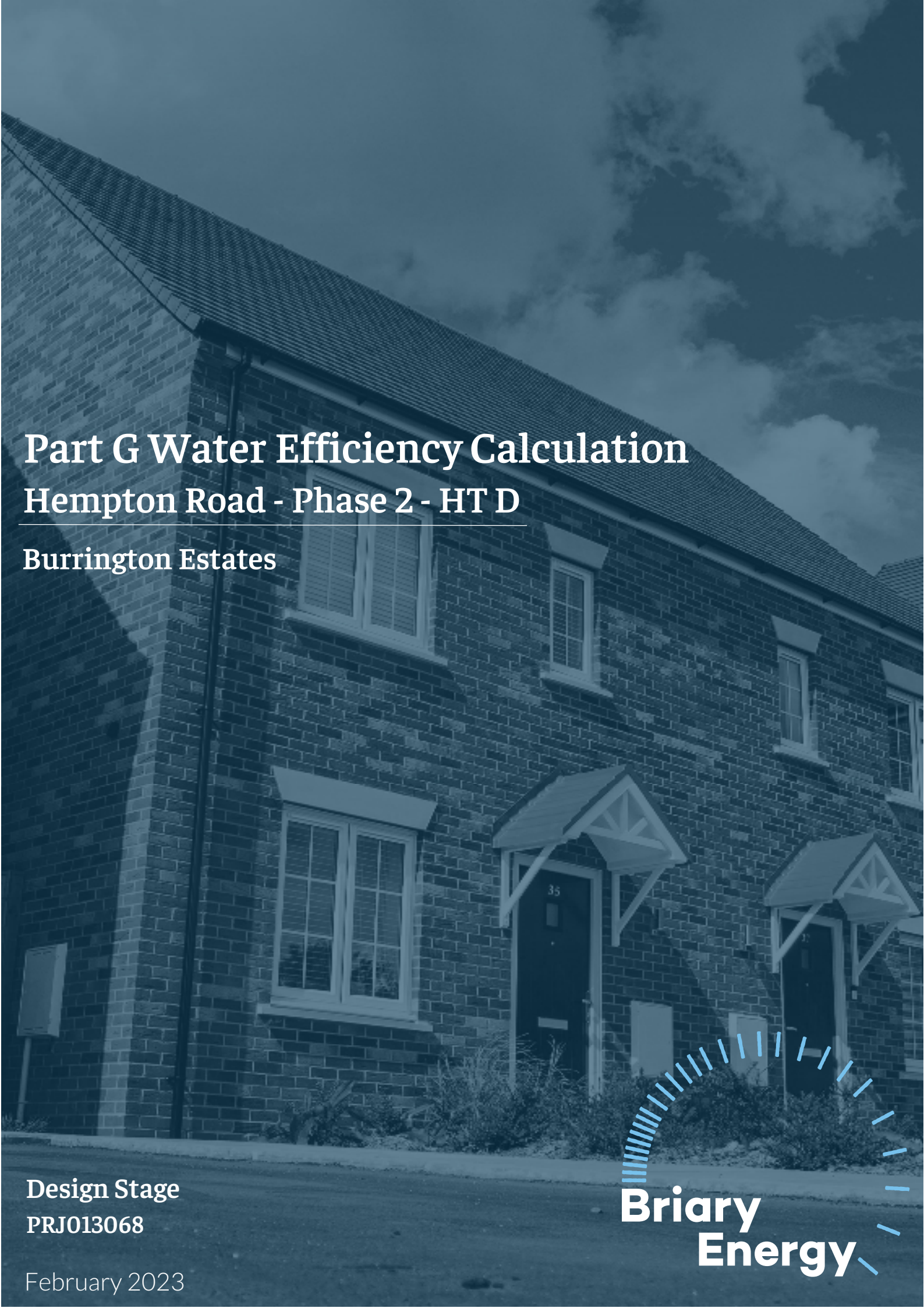

Part G Water Efficiency Calculation

Hempton Road - Phase 2 - HT D

Burrington Estates

Design Stage

PRJ013068

February 2023

Briary Energy

Briary Energy
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Water Use Assessment

Design Stage - Calculation Report

Certificate Ref: BE44967769

Issued: 01 February 2023

Hempton Road - Phase 2 - HT D

Burrington Estates

Design Stage

Performance Target: 110 (litres / person / day)

Building Regulations Part G - 110l

Number of Bedrooms: 3

Occupancy for Calculation Purposes 4

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

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Bathroom sink mixer taps	5	3	15.00

Total No. of Fittings (No.)	3
Total Flow (l/s)	15.00
Maximum Flow (l/s)	5.00
Average Flow (l/s)	5.00
Weighted Average Flow (l/s)	3.50
Flow for Calculation (l/s)	5.00

Showers

Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Shower over Bath	8		
Shower	8	2	16.00

Total No. of Fittings (No.)	2
Total Flow (l/s)	16.00
Maximum Flow (l/s)	8.00
Average Flow (l/s)	8.00
Weighted Average Flow (l/s)	5.60
Flow for Calculation (l/s)	8.00

Baths

Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type
Bath	180	2	360.00

Total No. of Fittings (No.)	2
Total Capacity (l)	360.00
Maximum Capacity (l)	180.00
Average Capacity (l)	180.00
Weighted Average Capacity (l)	126.00
Capacity for Calculation (l)	180.00

WCs

WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)
Dual flush toilet	4.5	3	3

Total number of fittings	3
Average effective flushing volume	3.50

Dishwashers

Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type
Dishwasher	1.25	1	1.25

Total No. of Fittings (No.)	1
Total Consumption (l)	1.25
Maximum Consumption (l)	1.25
Average Consumption (l/s)	1.25
Weighted Average Consumption (l)	0.88
Consumption for Calculation (l/s)	1.25

Washing Machines

Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type
Washing Machine	8.17	1	8.17

Total No. of Fittings (No.)	1
Total Consumption (l)	8.17
Maximum Consumption (l)	8.17
Average Consumption (l/s)	8.17
Weighted Average Consumption (l)	5.72
Consumption for Calculation (l/s)	8.17

Kitchen Taps

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Kitchen Tap	8	1	8.00
Utility Tap	8		

Total No. of Fittings (No.)	1
Total Flow (l/s)	8.00
Maximum Flow (l/s)	8.00
Average Flow (l/s)	8.00
Weighted Average Flow (l/s)	5.60
Flow for Calculation (l/s)	8.00

Other Fittings

Waste Disposal Y/N	N

Water softener

Consumption beyond 4% l/p/d	

Use of grey water and harvested rainwater

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