

The Water Calculator


<http://www.thewatercalculator.org.uk/>

Congratulations

Land Adjacent 1A Sutton Road, Waterloooville

You are within your target maximum consumption of potable water (110 litres per person per day).

Total water consumption from your calculation

100.53

litres per person per day

This calculator is intended to inform design choices by demonstrating the likely impact of specification changes on total water consumption. Results can only be used to demonstrate compliance with the Code for Sustainable Homes when the calculations have been verified by a suitably qualified Code for Sustainable Homes assessor.

Calculation summary

Installation type	Unit of measure	Capacity / flow rate	Use factor	Fixed use	Litres / person / day
WCs (single flush)	Flush volume (litres)		4.42	0	20.6
WCs (dual flush)	Average effective flushing volume (litres)	4.66			
Taps (excl. kitchen/utility room)	Flow rate (litres / minute)	4	1.58	1.58	7.9
Bath (shower also present)	Capacity to overflow (litres)	156	0.11	0	17.16
Shower (bath also present)	Flow rate (litres / minute)	7	4.37	0	30.59
Kitchen/utility room sink taps	Flow rate (litres / minute)	5	0.44	10.36	12.56
Washing machine	Litres / kg dry load	8.17	2.1	0	17.16
Dishwasher	Litres / place setting	1.25	3.6	0	4.5
Waste disposal unit	Litres / use	☐	3.08	0	
Water softener	Litres / person / day	☐	1	0	
Contribution from Grey Water					undefined
Contribution from Rain Water					undefined
Normalisation factor					$\Sigma \times 0.91$



waterwise

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calculator & site development by Seedtypes

Product Information

Single flush WCs

Flush
volume
(litres)

Quantity

Total

 Σ

Average Flush volume (litres)

Dual flush WCs

Effective flush
volume (litres)

Quantity

Total

Dual flush WC No. 1

4.66

1

4.66

 Σ

1

4.66

Average Effective flush volume (litres)

4.66

Taps (excluding kitchen/utility room taps, bath/shower taps, and external taps)

Flow rate
(litres /
minute)

Quantity

Total

Tap No. 1

4.0

1

4

 Σ

1

4

Average Flow rate (litres / minute)

4

Proportionate Flow rate (litres / minute) (Maximum $\times$ 0.7)

2.8

Baths

Capacity to
overflow
(litres)

Quantity

Total

Bath No. 1

156

1

156

 Σ

1

156

Average Capacity to overflow (litres)

156

Proportionate Capacity to overflow (litres) (Maximum $\times$ 0.7)

109.2

Showers

Flow rate
(litres /
minute)

Quantity

Total

Shower No. 1

7.0

1

7

 Σ

1

7

Average Flow rate (litres / minute)

7

Proportionate Flow rate (litres / minute) (Maximum $\times$ 0.7)

4.9

Kitchen/utility room sink taps

Flow rate
(litres /
minute)

Quantity

Total

Kitchen/utility room sink tap No. 1

5.0

1

5

 Σ

1

5

Average Flow rate (litres / minute)

5

Proportionate Flow rate (litres / minute) (Maximum $\times$ 0.7)

3.5

Contribution from Grey Water

Bath, shower, and hand basin usage (l/p/d)		a	
Percentage of used water to be recycled (%)		b	
Greywater available for use (litres/person/day)	0	c	$a \times (b + 100)$
Greywater demand (litres/person/day)		d	
Greywater savings (litres/person/day)	0	e	$\min \{c, d\}$

Contribution from Rain Water *

Collection area (m ²)		a	
Yield co-efficient and hydraulic efficiency		b	
Rainfall (average mm/year)		c	
Daily rainwater collection (litres)	0	d	$(a \times b \times c) + 365$
Percentage collected (%)		e	
Number of occupants	1	f	
Daily rainwater per person (litres)	0	g	$(d \times e + 100) \div f$
Rainwater demand (litres/person/day)		h	
Rainwater savings (litres/person/day)	0	i	$\min \{g, h\}$

* BS 8515 intermediate approach.

