

Congratulations

You are within your target maximum consumption of potable water (105 litres per person per day).

Total water consumption from your calculation: **102.52** 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)				
WCs (dual flush)	Average effective flushing volume (litres)	3.5	4.42	0	15.47
Taps (incl. kitchen/utility room)	Flow rate (litres / minute)	3.5	1.58	1.58	7.11
Bath (shower also present)	Capacity to overflow (litres)	190	0.11	0	20.9
Shower (bath also present)	Flow rate (litres / minute)	8	4.37	0	34.96
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	3.8	0	4.5
Waste disposal unit	Litres / use	<input type="checkbox"/>	3.08	0	
Water softener	Litres / person / day	<input type="checkbox"/>	1	0	
Contribution from Grey Water					undefined
Contribution from Rain Water					undefined
Normalisation factor					Σ × 0.91



Product Information

Dual flush WCs	Effective flush volume (litres)	Quantity	Total
Duravit – ME by Starck – – 2530090000			
Duravit – ME by Starck – – 2530090000			
Duravit – ME by Starck – – 2530090000			
Duravit – ME by Starck – – 2530090000			
	Σ		
Average Effective flush volume (litres)			

Taps (excluding kitchen/utility room taps, bath/shower taps, and external taps)	Flow rate (litres / minute)	Quantity	Total
Kitchen/utility room sink tap No. 1	5	1	5
	Σ	1	5
Average Flow rate (litres / minute)			5
Proportionate Flow rate (litres / minute) (Maximum × 0.7)			3.5

Baths	Capacity to overflow (litres)	Quantity	Total
Bath No. 1	190	1	190
	Σ	1	190
Average Capacity to overflow (litres)			190
Proportionate Capacity to overflow (litres) (Maximum × 0.7)			133

Showers	Flow rate (litres / minute)	Quantity	Total
Shower No. 1	8	1	8
Shower No. 2	8	1	8
Shower No. 3	8	1	8
	Σ	3	24
Average Flow rate (litres / minute)			8
Proportionate Flow rate (litres / minute) (Maximum × 0.7)			5.6

Kitchen/utility room sink taps	Flow rate (litres / minute)	Quantity	Total
WHB 1	5	1	5
WHB 2	5	1	5
WHB 3	5	1	5
WHB 4	5	1	5
	Σ	4	20
Average Flow rate (litres / minute)			5
Proportionate Flow rate (litres / minute) (Maximum × 0.7)			3.5

Contribution from Grey Water

Bath, shower, and hand basin usage (lpid)		a	
Percentage of used water to be recycled (%)		b	
Greywater available for use (litres/person/day)	0	c	a × (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	$(a \times b \times c) \div 365$
Percentage collected (%)		e	
Number of occupants	1	f	
Daily rainwater per person (litres)	0	g	$(d \times e \div 100) \div f$
Rainwater demand (litres/person/day)		h	
Rainwater savings (litres/person/day)	0	i	$\min(g, h)$

* BS 8515 intermediate approach.