

Specification and calculation for water used by sanitary appliances including thermostatic mixer valves.

(June 2021)



Redrow Homes – Harbour Views, Southleigh

Standard house types

Oxford, Letchworth, Canterbury, Windsor, Stratford, Marlow, Harrogate, Henley

Lifestyle Types

Oxford Lifestyle, Leamington Lifestyle

Affordable house types

Dart, Bromsgrove, Tavy, Leadon, Tweed

Affordable apartments

Plots 26-35 and 60-70

Bossmix TMV2 (or similar) thermostatic mixer valve fitted to all baths and limited to 48°C

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)	4	1.46	0.00	5.84
	Part flush Volume (litres)	2.6	2.96	0.00	7.70
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	5.00	1.58	1.58	9.48
Bath (where shower also present)	Capacity to overflow (litres)	139.00	0.11	0.00	15.29
Shower (where bath also present)	Flow Rate (litres / minute)	8.00	4.37	0.00	34.96
Bath Only	Capacity to overflow (litres)		0.50	0.00	0
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	10.00	0.44	10.36	14.76
Washing Machine	(Litres/kg dry load)	8.17	2.1	0.00	17.157
Dishwasher	(Litres/place setting)	1.25	3.6	0.00	4.5
Waste disposal unit	(Litres/use)	☐ Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
(5)	Total Calculated use (litres/person/day) = SUM(column 4)				109.69
(6)	Contribution from greywater (litres/person/day)				0
(7)	Contribution from rainwater (litres/person/day)				0
(8)	Normalisation factor				0.91
(9)	Total water consumption (Code for Sustainable Homes) = [(5)-(6)-(7)]x(8) (litres/person/day)				99.82
(10)	External water use				5.0
(11)	Total water consumption (Building Regulation 17.K) = (9)+(10)(litres/person/day)				104.8

Installation Type	Litres/Person/Day
WC (dual flush)	13.54
Taps	9.48
Baths (shower(s) present)	15.29
Showers (bath(s) present)	34.96
Kitchen Taps	14.76
Washing Machines	17.157
Dishwasher	4.5



WRc-NSF

