Twickenham Riverside Water Calculator





Design Team

ApplicantLondon Borough of Richmond upon Thames

Project Manager Arcadis

Architect Hopkins Architects

Landscape Architect LDA Design

Structural Engineer Webb Yates Engineers

Mechanical & Electrical Engineer Skelly & Couch

Transport Consultant WSP

Quantity Surveyor Arcadis

Planning Consultant Savills

Townscape & Heritage Consultant Iceni Projects

Sustainability Consultant Method Consulting

Accessibility Consultant Lord Consultants

Fire Consultant FDS Consult UK

Ecology Consultant BSG Ecology

Arboricultural Consultant

Thomson Environmental Consultants

Daylight & Sunlight Consultant GIA Chartered Surveyors

Acoustic Consultant TetraTech

Air Quality Consultant Entran

Land Contamination Consultant Geosphere Environmental

Archaeological Consultant AOC Archaeology Group

Viability Consultant Lambert Smith Hampton

Principal Designer Nick Perry Associates

BIM Consultant BIM Technologies

Installation Type	Unit of Measure	Capacity/Flow rate (1)	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)	4.5	1.46	0.00	6.57
	Part flush Volume (litres)	3	2.96	0.00	8.88
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	3.00	1.58	1.58	6.32
Bath (where shower also present)	Capacity to overflow(litres)	187.50	0.11	0.00	20.63
Shower (where bath also present)	Flow Rate(litres / minute)	7.00	4.37	0.00	30.59
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)	5.00	0.44	10.36	12.56
Washing Machine	(Litres/kg dry load)	8.33	2.1	0.00	17.49
Dishwasher	(Litres/place setting)	0.71	3.6	0.00	2.54
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)		105.58	
	(6)	Contribution from greywater (litres/person/day) Contribution from rainwater (litres/person/day)		0	
	(7)			0	
	(8)	Normalisation factor			0.91
	(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)			96.08
	(10)	External water use			5.0
	(11)	Total water consumption (Building Regulation 17.K) =(9)+(10)(litres/person/day)			101.1

Installation Type	Make/Model (mandatory)	Litres/Person/Day
WC (dual flush)	Villeroy & Boch Subway 2.0 Rimless Floor Standing WC - 5602R001	15.45
Taps	Hansgrohe Metris S Single lever basin mixer 100 31068000, Hansgrohe Metris S Single lever basin mixer 100 31068000, both flow restricted	6.32
Baths (shower(s) present)	Villeroy & Boch Subway Rectangular bath Rectangle UBA167SUB2V-01, Duravit Daro Bathtub 72800000	20.63
	Hansgrohe Raindance S Overhead shower 240 1jet EcoSmart 27461000, Grohe Euphoria shower system 27296002, both flow restricted	30.59
· ·	Hansgrohe Talis M54 Single lever kitchen mixer 210 with pull-out spray 72800000, Grohe Ambi Cosmopolitan two handle sink mixer 30190000, both flow restricted	12.56
Washing Machines	AEG 9000 Series Washer Dryer L9WEC169R	17.49
	Bosch Serie 6 Fully-integrated dishwasher SMD6EDX57G, Bosch Serie 4 Fully-integrated dishwasher SMV4HCX40G	2.54





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System Requirements