

49 Beech Avenue HA8 8UG
Water calculations

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Hira & Khalique

Mechanical
Electrical
Public Health
Sustainability
Energy

1. Party Summary

MEP & ENERGY CONSULTANT	HIRA & KHALIQUE ASSOCIATES
Address:	F14B Expressway, 1 Dock Road, London, E16 1AH
Lead Consultant	02034883545 (S Khalique)
Energy Assessor	J Alvarez
Checked By	S Khalique
Revision Number	00
Revision Notes	
Date	06.10.2022
ARCHITECT	Design and Endeavor
Address:	
Tel:	
STRUCTURAL & CIVIL CONSULTANTS	-
Address:	-
Tel:	-
Site:	49 Beech Avenue
Address:	
No. Units:	
Other Info:	
Client:	IKA Investment
Address:	8 Compass Close, Edgware, HA8 8HU



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)	6	1.46	0.00	8.76
	Part flush Volume (litres)	4	2.96	0.00	11.84
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	3.50	1.58	1.58	7.11
Bath (where shower also present)	Capacity to overflow(litres)	120.00	0.11	0.00	13.20
Shower (where bath also present)	Flow Rate(litres / minute)	6.00	4.37	0.00	26.22
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)	6.00	0.44	10.36	13.00
Washing Machine	(Litres/kg dry load)	4.66	2.1	0.00	9.79
Dishwasher	(Litres/place setting)	1.25	3.6	0.00	4.50
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)			94.42
	(6)	Contribution from greywater (litres/person/day)			0
	(7)	Contribution from rainwater (litres/person/day)			0
	(8)	Normalisation factor			0.91
	(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)			85.92
	(10)	External water use			5.0
	(11)	Total water consumption (Building Regulation 17.K) =(9)+(10)(litres/person/day)			90.9

Installation Type	Make/Model (mandatory)	Litres/Person/Day
WC (dual flush)		20.6
Taps		7.11
Baths (shower(s) present)		12.10
Showers (bath(s) present)		26.22
Kitchen Taps		13.00
Washing Machines		9.79
Dishwasher		4.50