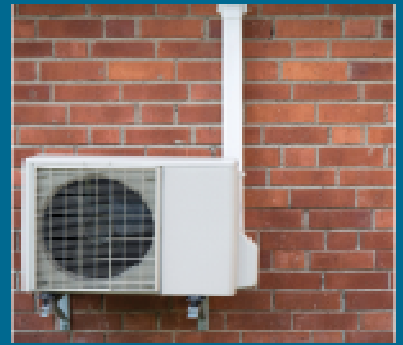


Part G Water Efficiency Calculation

Standard House Type Bloor Homes - 110 Itrs Level 2

17.K Compliance (Building Regulations Part G)

February 2023



Water Conservation

Performance target: 110 ltrs per person per day

110 (litres / person / day)

Water consumption in the UK has risen by 70% over the last 30 years. Trying to meet the increasing demand by creating new sources of water supply is both expensive and damaging to the environment. The efforts should be focused on reducing the demand for water and managing existing resources. Good water management can contribute to reducing the overall level of water consumption maintaining a vital resource and having environmental as well as cost benefits in the life cycle of the building. Water efficient devices will be fully evaluated, and installed, wherever possible.

The specification of such devices will be considered at design stage and each will be subject to an evaluation based on technical performance, cost and market appeal, in order to comply with the water use regulations. The following devices will be incorporated within each dwelling: water efficient taps, water efficient toilets, low output showers, flow restrictors to manage water pressures to achieve optimum levels and water meters to all homes with guidance on water consumption and savings.

Installation type	Unit of measure	Capacity/ flow rate	Use factor	Fixed use	Litres/ person/day		
WC (dual flush)	Full flush volume	4.50	1.46	0.00	6.57		
	Part flush volume	3.00	2.96	0.00	8.88		
Taps (excluding kitchen/utility room taps)	Flow rate (l/min)	5.00	1.58	1.58	9.48		
Bath (where shower also present)	Capacity to overflow	160.00	0.11	0.00	17.60		
Shower (where bath also present)	Flow rate (l/min)	8.00	4.37	0.00	34.96		
Bath only	Capacity to overflow	N/A	0.50	0.00	0.00		
Shower only	Flow rate (l/min)	N/A	5.60	0.00	0.00		
Kitchen/utility room sink taps	Flow rate (l/min)	11.80	0.44	10.36	15.55		
Washing machine	Litres/kg dry load	8.17	2.10	0.00	17.16		
Dishwasher	Litres/place setting	1.25	3.60	0.00	4.50		
Waste disposal unit	Litres/use	N/A	3.08	0.00	0.00		
Water softener	Litres/person/day	N/A	0.00	0.00	0.00		
Greywater Contribution	N/A	Rainwater Contribution	N/A	Normalisation factor	0.91	Total calculated use	114.70
Normalised total water consumption		104.38	External water use		5.00	Total Water Consumption	109.38
The calculation methodology is to be used to assess compliance against the water performance targets in Regulation 36. It is not a design tool for water supply and drainage systems. It is also not capable of calculating the actual potable water consumption of a new dwelling. Behaviour and changing behaviour can also have an effect on the amount of potable water used throughout a home.						Part G 17.K Compliance?	Yes
						Performance Target Met	Yes

The calculation methodology uses the water consumption figures provided from manufacturers' product details. Where details have not been provided, figures have been used to achieve compliance. These must be met in order to satisfy the Part G Calculation for Standard House Type.