



WATER CONSUMPTION REPORT

Proposed Care Home,
Havant



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REVISION P01
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1.0 Introduction

This report has been prepared to demonstrate compliance with the Building Regulations with respect to water efficiency the proposed care home development located at Bartons Road, Havant for Anavo Group.

The water efficiency calculations have been prepared using the guidance document and methodology detailed with 'The Water Efficiency Calculator for new dwellings', published by the Department for Communities and Local Government.

Where specific appliance information is not available, figures from the above guidance document have been utilised in line with the identified methodology (i.e. washing machines).

A summary of the calculated results is provided below, with the calculations also attached for information.

The selection of sanitaryware fittings (including flush volumes, tap selections, provision of flow restrictors etc.) shall be monitored through the detailed design to ensure compliance with these requirements.

Note, this applies to new bedrooms/affected areas only. The calculation does not cover the existing building or areas and sanitaryware unaffected by the proposed works.

2.0 Calculation Summary

Building Regulations have a maximum usage of 125 litres/person/day.

Condition 21 of the Decision Notice for the propose works (Reference Number: APP/23/00665) requires an enhanced maximum usage of 110 litres/person/day.

As can be seen from the calculations provided on the following page, the properties comply with the maximum usage limitations as required by Approved Document G and the condition requirements with a calculated usage of 109.0 litres/resident/day. This is based on the preferred sanitaryware and taps as detailed within the sanitaryware schedule provided as part of the tender documentation.

3.0 Water Efficiency Calculation

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)	0	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
WCs (multiple fittings)	Average effective flushing volume	0	4.42	0.00	0
Taps (excluding kitchen/utility room taps) Note, flow restrictors to be fitted.	Flow rate (litres/minute)	5	1.58	1.58	7.9
Bath (where shower also present)	Capacity to overflow (litres)	120	0.11	0.00	13.2
Shower (where bath also present)	Flow rate (litres/minute)	8.6	4.37	0.00	37.58
Bath only	Capacity to overflow (litres)	0	0.50	0.00	0
Shower only	Flow rate (litres/minute)	0	5.60	0.00	0
Kitchen/utility room sink taps	Flow rate (litres/minute)	6.8	0.44	10.36	13.35
Washing machine	Litres/kg dry load	8.17	2.1	0.00	17.16
Dishwasher	Litres/place setting	1.25	3.6	0.00	4.5
Waste disposal unit	Litres/use	If present = 1 If absent = 0	3.08	0.00	0
Water softener	Litres/person/day	0	1.00	0.00	0
(5)	Total calculated use (litres/person/ day) = (Sum column 4)				114.29
	(6)	Contribution from greywater (litres/person/day) from Table 4.6			0
	(7)	Contribution from rainwater (litres/person/day) from Table 5.5			0
	(8)	Normalisation factor			0.91
	(9)	Total water consumption = [(5) – (6) – (7)] x (8) (litres/person/day)			104.00
	(1 0)	External water use			5.0
	(1 1)	Total water consumption (Building Regulation 17.K)= (9) + (10) (litres/person/day)			109.00