Consulting Civil Engineers

Installed Fittings

Land Adjacent Rushmear House, Henfield

For

Marc Warren

Rev – **P-**

Reference **C2963**

Date **30th July 2024**

Revision	Date of Issue	Comments	Prepared By	Checked By
P	30.07.2024	Initial Issue	LH	CS

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1 Introduction

1.1.1 CGS Civils Ltd has been appointed by Marc Warren to undertake a Water Efficiency Measures report for a proposed development at the land adjacent to Rushmear House, Henfield which will follow the required measures that were listed within the Water Neutrality Report which was carried out by CGS Civils Ltd – Ref: **C2963 Water Neutrality Report**.

1.1.2 The proposals are for the change of use of a recently completed 3-bedroom holiday let to a Class C3 dwelling. The water neutrality report has stated that the proposed 3-bedroom dwelling is to have water efficient fittings installed which will result in a water demand of **229.31 l/day** for the average occupancy of 2.47 as per HDC guidelines.

1.1.3 The purpose of this report is to provide details on the fittings that have been installed within the proposed dwelling in order to adhere to the water usage set out within the water neutrality report.

2 Installed Fittings for annexe

Fitting Type	Water Reduction Measure:	Does installed measure match required water demand?	Proof of purchase
Basin Taps	Fitted 2l/min tap limiter	Required Water Demand: 5.53 l/p/day Installed Measures Water Demand: 4.74 l/p/day	
Kitchen Taps	Fitted 5l/min tap limiter	Required Water Demand: 12.56 l/p/day Installed Measures Water Demand: 12.56 l/p/day	
Total Water Demand:			92.84l/p/day.

3 Conclusion

3.1.1 Based upon the purchased and installed fittings, the annexe's is reduced from **241.89** to **229.31 l/day** as proposed within the water neutrality report (**C2963 Water Neutrality Report**). It is therefore confirmed that the site is water neutral.

4 Appendices:

4.1 Appendix A:

Water Calculator from Building Regulations Part G for annexe

The Water Calculator for New Dwellings with Water efficient measures					
Installation Type	Unit of measure	Volume/ flow rate	Use factor	Fixed use	Litres/person/day
WC (Single Use)	Flush volume (l)	0	4.42	0	0
WC (Dual Flush)	Full Flush Vol.	4	1.46	0	5.84
	Part Flush vol.	3	2.96	0	8.88
WC (Multiple Fittings)	Average effective flush volume (l)	0	4.42	0	0
Taps (excl. Kitchen)	Flow rate (l/min)	2	1.58	1.58	4.74
Bath (shower also present)	Capacity to overflow (l)	165	0.11	0	18.15
Shower (bath also present)	Flow rate (l/min)	7	4.37	0	30.6
Bath only	Capacity to overflow (l)	0	0.5	0	0
Shower only	Flow rate (l/min)	0	5.6	0	0
Kitchen sink taps	Flow rate (l/min)	5.5	0.44	10.36	12.56
Washing Machine	Litres/kg dry load	5.5	2.1	0	11.55
Dishwasher	litres/place setting	0.95	3.6	0	3.42
Waste disposal unit	litres/use	0	3.08	0	0
Water softener	litres/person/day	0	1	0	0
		Total Calculated use (l/p/d)			96.53
		Contribution from greywater (l/p/d)			0
		Contribution from rainwater (l/p/d)			0
		Normalisation factor			0.91
		External water use			5
		Total water consumption (36(1)) (l/p/d)			92.84