

Building Regulations Approved Document Part G (2010) & Sustainability Statement



Compliance Report

PROJECT DETAILS

Project Reference: 2342

Site address: 179 Kidmore Road, Caversham, Reading, RG4 7NW.

Assessor: Antony Straszewski

Company: Proport Eco-Services www.proporteco.co.uk

Tel: 01439 788 680

Prepared on: 14th November 2022

Stage: As Built

SUMMARY

Following the Government's national calculation methodology for assessing water efficiency in new dwellings, the dwelling, as built, achieves a water consumption of 108.0 litres per person per day.

Compliance with the requirements of G2 of Schedule 1 and Regulation 36 to the Building Regulations 2010, as amended, has been demonstrated. In addition compliance with condition 11 of the planning permission granted on 15th October 2020 has also been achieved, viz.

11. The development hereby permitted shall not be occupied until written verification has been submitted to and approved in writing by the Local Planning Authority demonstrating that the dwellings hereby permitted have achieved a minimum of a 19% improvement in the dwelling emission rate over the target emission rate as defined in The Building Regulations for England Approved Document L1a: Conservation of Fuel and Power in New Dwellings (2013 edition), and built to the higher water efficiency standard under Regulation 36(3).

Key elements of the design include: dual flush WC's and low flow taps and showers.

Introduction

This report relates to the construction a single detached dwelling following demolition of the existing dwelling; Reading Borough Council planning application no. 201024.

Calculations

Based on information supplied by the client and manufacturers.

Table 1: The Water Calculator for New Dwellings					
Installation Type	Unit of Measure	Capacity/ flow rate	Use Factor	Fixed Use (L/person/day)	L/person/day
WC (single flush)	Flush volume (litres)	---	4.42	0.00	---
WC (dual flush)	Full flush vol.	6.0	1.46	0.00	17.64
	Part flush vol.	3.0	2.96	0.00	
WC (multiple fittings)	Average effective flush vol. (litres)	---	4.42	0.00	---
Taps (excl. kitchen/utility)	Flow rate (litres/min)	3.5	1.58	1.58	7.11
Bath (shower also present)	Capacity to overflow (litres)	188	0.11	0.00	20.68
Shower (bath also present)	Flow rate (litres/min)	9.0	4.37	0.00	39.33
Bath only	Capacity to overflow (litres)	---	0.5	0.00	---
Shower only	Flow rate (litres/min)	---	5.60	0.00	---
Kitchen/utility sink taps	Flow rate (litres/min)	12.0	0.44	10.36	15.64
Washing machine	Litres/kg dry load	4.90	2.1	0.00	10.29
Dishwasher	Litres/place setting	0.68	3.6	0.00	2.45
Waste disposal	Litres/use	If present = 1 If absent = 0	3.08	0.00	---
Water softener	Litres/person/day	Table 3.	1.00	0.00	0.00
Total calculated use (litres/person/day)					113.10
Contribution from greywater (litres/person/day) from Table 4.6					0.00
Contribution from rainwater (litres/person/day) from Table 5.5					0.00
Normalisation factor					0.91
Total internal water consumption (litres/person/day)					103.0
External water use					5.0
Total water consumption (Building Regulation 17.K) (litres/person/day)					108.0
17.K Compliance?					Yes

No multiple fittings, simple calculation methodology used, Table 2 not required.

No water softener fitted; Table 3 not required.

Greywater and rainwater recycling systems not installed, Tables 4 and 5 not required.

This is an 'As Built' calculation and is based on details provided by the client and manufacturers.

Client Declaration

Fitting		Number installed	Manufacturer	Model	
Basin taps (not kitchen or utility)		3	Hans Grohe	2no. Focus basin Mixer 70 Low-Flow	
Kitchen & Utility sink taps		2	Hans Grohe	Logis m31 single lever kitchen mixer	
Showers (controls and heads)		3	Hans Grohe	Croma Select S Complete Shower Set	
Have flow restrictors been fitted to any of the taps or showers? If Yes – give details of restrictors fitted (make & code no.) and which fittings they gave been installed on				Yes – Hansgrohe EcoSmart restrictors to all showers and taps.	
Fitting		Number installed	Make	Model	
Baths (the actual bath – not the taps)		1	Beaufort	Biscay	Dimensions 1600 mm x 725 mm
WC cisterns	Single flush				
	Dual flush	4	Roper	Torrent Concealed Dual Flush Cistern	
Dishwasher			Neff	Intigrated N70	
Washing Machine		0			
Water softener		0			

Has a waste disposal unit been installed? No

Has rainwater or greywater recycling for internal use (WCs and/or washing machine) been installed? No
(If Yes, we will require full design details)

Client confirmed in an email, 14th November 2022, that a Neff W7460X5GB washing machine had been fitted.