E-Horizon Ltd.

INTERNAL WATER CONSUMPTION SUMMARY REPORT

3 NEW CLOSE, MERTON, LONDON, SW19 2SX

Part G Internal Water Calculations

Job No. 22/10884/AB
Approved by: LJG, 15/08/2022

August 2022

Introduction

This Statement sets out the water efficiency calculations for the redevelopment of the property to 5 flats. The calculations detailed are carried out in accordance with the Communities and Local Government 'Water Efficiency Calculator for New Dwellings' document in support of The Code for Sustainable Homes, April 2009 and subsequent versions and Building Regulations Approved Document Part G, 2009.

The average person consumes around 150 litres of water per date; this represents an annual increase of 1% since the 1930s. Despite the UK's wet and temperate climate, climate change will most probably result in an increase in the occurrence of drought orders and hosepipe bans; the most recent hosepipe ban was issued in Cumbria in July 2010. With this in mind, it is not difficult to appreciate that within the next few decades the UK, particularly the southeast, will face regular water shortages. In response to this, water efficiency has gained equal billing, alongside energy efficiency. The following are the key principle policy drivers: -

- The new Approved Document G (2010) for the first time restricts new build dwellings to a maximum consumption of 125 litres per person per day. The Water Efficiency Calculator of New Dwellings also includes an allowance for external water use.

- The Code for Sustainable Homes (CFSH) was first introduced in April 2007. Included within the Code are mandatory water efficiency standards. Homes constructed to Code for Sustainable Homes Level 3 & 4 must achieve a maximum internal water consumption of 105 litres per person per day. Dwellings constructed to Code Level 5 & 6 must achieve an internal water consumption of 80 litres per person per day.

- Part L 2013 and SAP 2012 will take account of Part G and water consumption in the calculation.

For the development to comply with the Council's requirements, each of the 5 flats must achieve a maximum internal water consumption of 105 litres per person per day. This Statement sets the calculations to demonstrate how this will be achieved.

The tables on the following pages detail the proposed sanitary item specification for the 5 flats. All flow rates have been provided by the developer to allow for accurate internal consumption measures to be ascertained.

WATER CONSUMPTION FIGURES

Room	Appliance	Type/Make/ Model	Flat A	Flat B	Flat C	Flat D	Flat E	
WC			3 bed/ 4 person	3 bed/ 4 person	1 bed/ 1 person	2 bed/ 3 person	2 bed/ 3 person	
	WC – Dual Flush	Grohe 3 in 1	N/A	N/A	N/A	N/A	N/A	
	Basin tap	Valmo twist	N/A	N/A	N/A	N/A	N/A	
Bathroom								
	WC – Dual Flush	Grohe 3 in 1	6.42	6.42	6.42	6.42	6.42	
	Basin tap	Valmo twist	7.9	7.90	7.90	7.90	7.90	
	Bath tap	Ergo Designs triple mixer /tap	1.65	1.65	N/A	N/A	N/A	
	Shower – O/H	Auto thermo head	22.4	22.40	22.40	22.40	22.40	
	Shower - hand	Auto thermo head	N/A	N/A	N/A	N/A	N/A	
En-Suite								
	WC – Dual Flush	Grohe 3 in 1	6.42	N/A	N/A	N/A	6.42	
	Tap	Valmo twist	7.9	N/A	N/A	N/A	7.9	
	Shower – Hand	Auto thermo shower	15.4	N/A	N/A	N/A	15.4	
	Shower – O/H	Auto thermo head	N/A	N/A	N/A	N/A	N/A	
Kitchen / Utility								
	Sink Tap	Vellamo Revolve Single Lever Mono	14.95	14.92	14.92	14.92	!4.92	
	Dishwasher	BEKO DIN 15	4.8	4.8	4.8	4.8	4.8	
	Washing Machine	Gogik LIW 814	14.7	14.7	14.7	14.7	14.7	
	TOTAL USAGE	(litres/person/day)	102.6	72.79	71.14	71.14	101.12	

CONCLUSION

The proposed internal fixtures and fittings have been considered in relation to the internal water consumption of each of the 5 flats at No.3 New Close. The above tables demonstrate that the installation of the specified sanitary ware would result in a Part G internal water usage figure below 105 litres/person/day for each of the 5 flats.