



## The Water Efficiency Calculator for New Dwellings

**These calculations have been carried out in accordance with the  
Government's National Calculation Methodology for assessing water  
efficiency in new dwellings in support of:**

Building Regulations Approved Document Part G.

Site

**Flats 1 – 4, 29-30 High Holborn  
London  
WC1V 6AZ**

Date

**21<sup>st</sup> October 2019  
WC-E929**

## Water Efficiency Calculator for New Dwellings (V1f - Aug 2010)

## Project Details

Address/Reference	29-30 High Holborn - 1 Bed	Case Reference	E929
Number of Bedrooms	1	Occupancy for Calculation Purposes	2

## Appliance/Useage Details

## Taps (Excluding Kitchen Taps)

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Basin Mixer	3.00	1	3.00
			0.00
			0.00
			0.00
			0.00
			0.00
<b>Total No. of Fittings (No.)</b>		1	
<b>Total Flow (l/s)</b>			3.00
<b>Maximum Flow (l/s)</b>			3.00
<b>Average Flow (l/s)</b>			3.00
<b>Weighted Average Flow (l/s)</b>			2.10
<b>Flow for Calculation (l/s)</b>			3.00

## Showers

Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Shower	9.50	1	9.50
			0.00
			0.00
			0.00
			0.00
			0.00
<b>Total No. of Fittings (No.)</b>		1	
<b>Total Flow (l/s)</b>			9.50
<b>Maximum Flow (l/s)</b>			9.50
<b>Average Flow (l/s)</b>			9.50
<b>Weighted Average Flow (l/s)</b>			6.65
<b>Flow for Calculation (l/s)</b>			9.50

## Baths

Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type
			0.00
			0.00
			0.00
			0.00
<b>Total No. of Fittings (No.)</b>		0	
<b>Total Capacity (l)</b>			0.00
<b>Maximum Capacity (l)</b>			0.00
<b>Average Capacity (l)</b>			0.00
<b>Weighted Average Capacity (l)</b>			0.00
<b>Capacity for Calculation (l)</b>			0.00

## WCs

WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)
INDIGO WC	5.00		1
<b>Total number of fittings</b>			1
<b>Average effective flushing volume</b>			N/a

## Dishwashers

Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type
BEKO DIS15012	1.05	1	1.05
			0.00
<b>Total No. of Fittings (No.)</b>		1	
<b>Total Consumption (l)</b>			1.05
<b>Maximum Consumption (l)</b>			1.05
<b>Average Consumption (l/s)</b>			1.05
<b>Weighted Average Consumption (l)</b>			0.74
<b>Consumption for Calculation (l/s)</b>			1.05

## Washing Machines

Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type
BEKO WDIY854310F	5.88	1	5.88
			0.00
<b>Total No. of Fittings (No.)</b>		1	
<b>Total Consumption (l)</b>			5.88
<b>Maximum Consumption (l)</b>			5.88
<b>Average Consumption (l/s)</b>			5.88
<b>Weighted Average Consumption (l)</b>			4.11
<b>Consumption for Calculation (l/s)</b>			5.88

## Kitchen Taps

Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type
Norrie Tap Brushed Steel	4.00	1	4.00
			0.00
			0.00
<b>Total No. of Fittings (No.)</b>		1	
<b>Total Flow (l/s)</b>			4.00
<b>Maximum Flow (l/s)</b>			4.00
<b>Average Flow (l/s)</b>			4.00
<b>Weighted Average Flow (l/s)</b>			2.80
<b>Flow for Calculation (l/s)</b>			4.00

## Other Fittings

Waste Disposal Y/N	N
Water softner	
Consumption beyond 4% l/p/d	

## Use of grey water and harvested rainwater

Total Grey water from WHB taps (l)	0
Total Available Grey Water Supply (l)	106.40
Possible Demand (l)	68.88
Grey/Rain Installed Capacity (l)	0.00
Figure for Calculation lit/person/day	0.00

## Water Use Assessment

Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (l/p/day)	Total Use (l/p/day)
WC Single Flush	Volume (l)	5.00	4.42	0.00	22.10
WC Dual Flush	Full Flush (l)	0.00	1.46	0.00	0.00
	Pt Flush (l)	0.00	2.96	0.00	0.00
WC's (Multiple)	Volume (l)	0.00	4.42	0.00	0.00
Taps Exc. Kitchen	Flow Rate	3.00	1.58	1.58	6.32
Bath (shower present)	(l/s)	0.00	0.11	0.00	0.00
Shower (bath present)	(l/s)	0.00	4.37	0.00	0.00
Bath Only	(l)	0.00	0.50	0.00	0.00
Shower Only	(l/s)	9.50	5.60	0.00	53.20
Kitchen Taps	(l/s)	4.00	0.44	10.36	12.12
Washing Machines	(l/kgdry)	5.88	2.10	0.00	12.34
Dishwashers	(l/place)	1.05	3.60	0.00	3.78
Waste Disposal	(l/s)	0.00	3.08	0.00	0.00
Water Softner	(l/s)	0.00	1.00	0.00	0.00
<b>Total Calculated Water Use (l/p/day)</b>					<b>109.86</b>
Grey/RainWater Reused (l)					0.00
Normalisation Factor (Factor)					0.91
<b>Total Consumption CSH (l/p/day)</b>					<b>99.97</b>
External Water Use Allowance (l)					5.00
<b>Total Consumption Part G (l/p/day)</b>					<b>104.97</b>

Assesment Result

WC-E929

PASS

Water Efficiency Calculator for New Dwellings (V1f - Aug 2010)					
<b>Project Details</b>					
Address/Reference	29-30 High Holborn - 2 Bed	Case Reference	E929		
Number of Bedrooms	2	Occupancy for Calculation Purposes	3		
<b>Appliance/Useage Details</b>					
<b>Taps (Excluding Kitchen Taps)</b>					
Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type		
Basin Mixer	3.00	1	3.00		
			0.00		
			0.00		
			0.00		
			0.00		
			0.00		
<b>Total No. of Fittings (No.)</b>		1			
<b>Total Flow (l/s)</b>			3.00		
<b>Maximum Flow (l/s)</b>			3.00		
<b>Average Flow (l/s)</b>			3.00		
<b>Weighted Average Flow (l/s)</b>			2.10		
<b>Flow for Calculation (l/s)</b>			3.00		
<b>Showers</b>					
Shower fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type		
Shower	9.50	1	9.50		
			0.00		
			0.00		
			0.00		
			0.00		
			0.00		
<b>Total No. of Fittings (No.)</b>		1			
<b>Total Flow (l/s)</b>			9.50		
<b>Maximum Flow (l/s)</b>			9.50		
<b>Average Flow (l/s)</b>			9.50		
<b>Weighted Average Flow (l/s)</b>			6.65		
<b>Flow for Calculation (l/s)</b>			9.50		
<b>Baths</b>					
Bath Type	Capacity to Overflow	Quantity (No.)	Total per Fitting type		
			0.00		
			0.00		
			0.00		
			0.00		
<b>Total No. of Fittings (No.)</b>		0			
<b>Total Capacity (l)</b>			0.00		
<b>Maximum Capacity (l)</b>			0.00		
<b>Average Capacity (l)</b>			0.00		
<b>Weighted Average Capacity (l)</b>			0.00		
<b>Capacity for Calculation (l)</b>			0.00		
<b>WCs</b>					
WC Type	Full Flush Volume	Part Flush Volume	Quantity (No)		
INDIGO WC	5.00		1		
<b>Total number of fittings</b>			1		
<b>Average effective flushing volume</b>			N/a		
<b>Dishwashers</b>					
Dishwasher Type	L per Place Setting	Quantity (No.)	Total per Fitting type		
BEKO DIS15012	1.05	1	1.05		
			0.00		
<b>Total No. of Fittings (No.)</b>		1			
<b>Total Consumption (l)</b>			1.05		
<b>Maximum Consumption (l)</b>			1.05		
<b>Average Consumption (l/s)</b>			1.05		
<b>Weighted Average Consumption (l)</b>			0.74		
<b>Consumption for Calculation (l/s)</b>			1.05		
<b>Washing Machines</b>					
Washing Machine Type	L per Kg Dry Load	Quantity (No.)	Total per Fitting type		
BEKO WDIY854310F	5.88	1	5.88		
			0.00		
<b>Total No. of Fittings (No.)</b>		1			
<b>Total Consumption (l)</b>			5.88		
<b>Maximum Consumption (l)</b>			5.88		
<b>Average Consumption (l/s)</b>			5.88		
<b>Weighted Average Consumption (l)</b>			4.11		
<b>Consumption for Calculation (l/s)</b>			5.88		
<b>Kitchen Taps</b>					
Tap Fitting Type	Flow Rate Litres/Min	Quantity (No.)	Total per Fitting type		
Norrie Tap Brushed Steel	4.00	1	4.00		
			0.00		
			0.00		
<b>Total No. of Fittings (No.)</b>		1			
<b>Total Flow (l/s)</b>			4.00		
<b>Maximum Flow (l/s)</b>			4.00		
<b>Average Flow (l/s)</b>			4.00		
<b>Weighted Average Flow (l/s)</b>			2.80		
<b>Flow for Calculation (l/s)</b>			4.00		
<b>Other Fittings</b>					
Waste Disposal Y/N		N			
Water softner					
Consumption beyond 4% l/p/d					
<b>Use of grey water and harvested rainwater</b>					
Total Grey water from WHB taps (l)		0			
Total Available Grey Water Supply (l)		159.60			
Possible Demand (l)		103.31			
Grey/Rain Installed Capacity (l)		0.00			
Figure for Calculation lit/person/day		0.00			
<b>Water Use Assessment</b>					
Installation Type	Unit	Capacity/ Flow Rate	Use Factor	Fixed use (l/p/day)	Total Use (l/p/day)
WC Single Flush	Volume (l)	5.00	4.42	0.00	22.10
WC Dual Flush	Full Flush (l)	0.00	1.46	0.00	0.00
	Pt Flush (l)	0.00	2.96	0.00	0.00
WC's (Multiple)	Volume (l)	0.00	4.42	0.00	0.00
Taps Exc. Kitchen	Flow Rate	3.00	1.58	1.58	6.32
Bath (shower present)	(l/s)	0.00	0.11	0.00	0.00
Shower (bath present)	(l/s)	0.00	4.37	0.00	0.00
Bath Only	(l)	0.00	0.50	0.00	0.00
Shower Only	(l/s)	9.50	5.60	0.00	53.20
Kitchen Taps	(l/s)	4.00	0.44	10.36	12.12
Washing Machines	(l/kgdry)	5.88	2.10	0.00	12.34
Dishwashers	(l/place)	1.05	3.60	0.00	3.78
Waste Disposal	(l/s)	0.00	3.08	0.00	0.00
Water Softner	(l/s)	0.00	1.00	0.00	0.00
<b>Total Calculated Water Use (l/p/day)</b>					<b>109.86</b>
Grey/RainWater Reused (l)					0.00
Normalisation Factor (Factor)					0.91
<b>Total Consumption CSH (l/p/day)</b>					<b>99.97</b>
External Water Use Allowance (l)					5.00
<b>Total Consumption Part G (l/p/day)</b>					<b>104.97</b>
Assesment Result	WC-E929	<b>PASS</b>			