



<b>Job no:</b>	ENV309-CRYS-001
<b>Date:</b>	Nov-23
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<b>Registration no:</b>	N/A
<b>Development name:</b>	109 Church Road, Crystal Palace
<b>Issue Date:</b>	22/11/2023

Rainwater

Greywater

Results

**WATER EFFICIENCY CALCULATOR FOR NEW DWELLINGS**  
 (for use with the Code for Sustainable Homes issues Wat 1 for the May 2009 and subsequent versions)

<b>Dwelling Description</b>	3 bed, 2 bath dwellings
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**1st step - Select from options below:**

Is a Rain and/or Greywater system specified?	<b>No</b>	
Is a shower AND bath present?	<b>Yes</b>	
Has a washing machine been specified?	<b>Yes</b>	
Has a dishwasher been specified?	<b>Yes</b>	

**2nd step - Build spreadsheet (click button below)**

**BUILD SPREADSHEET**

As soon as this button is pressed the spreadsheet will change according to the options selected previously in the 1st step. Scroll down to see the changes.

**3rd step - Enter consumption details for the specified fittings**

<b>TAPS</b> <small>(excluding kitchen taps)</small>	<b>Fitting type</b>	<b>Flow rate (litres/min)</b>	<b>Number of fittings</b>
1	Fairford Sierra	6.00	1
2			
3			
4			
<b>Proportionate flow rate (litres/min)</b>			4.20

	<b>Consumption / person / day (Litres)</b>		<b>11.06</b>
<b>BATHS</b>			
	<b>Fitting type</b>	<b>Capacity to overflow (litres)</b>	<b>Number of fittings</b>
1	Bath	180.00	1
2			
3			
4			
	<b>Proportionate capacity to overflow (litres)</b>		<b>126.00</b>
	<b>Consumption / person / day (Litres)</b>		<b>19.80</b>
<b>SHOWERS</b>			
	<b>Fitting type</b>	<b>Flow rate (litres/min)</b>	<b>Number of fittings</b>
1	Fairford Element Exposed + Restrictor	12.00	1
2			
3			
4			
	<b>Proportionate flow rate (litres/min)</b>		<b>8.40</b>
	<b>Consumption / person / day (Litres)</b>		<b>52.44</b>
<b>DISHWASHER</b>			
	<b>Fitting Type</b>	<b>Litres per place setting</b>	<b>Number of fittings</b>
1	Lamona LAM8607	0.79	1
2			
3			
4			
	<b>Proportionate litres per place setting</b>		<b>0.55</b>
	<b>Consumption / person / day (Litres)</b>		<b>2.84</b>
<b>WASHING MACHINES</b>			
	<b>Fitting Type</b>	<b>Litres per kilogram of dry load</b>	<b>Number of fittings</b>
1	Lamona LAM8740	5.13	1

	2		
	3		
	4		
Where no washing machines have been specified but plumbing for future supply of grey/rainwater was installed, please enter details:			
	Proportionate of litres/kg of dry load		3.59
	Consumption / person / day (Litres)		10.77

WC's	Fitting Type	Flush Type	Volume**	Number of fittings
1	Toilets	Full Flush	6.00	1
		Part Flush	4.00	
2		Full Flush		
		Part Flush		
3		Full Flush		
		Part Flush		
4		Full Flush		
		Part Flush		
Average effective flushing volume (litres)			4.66	
Consumption / person / day (Litres)			20.60	

KITCHEN SINK TAPS		Fitting Type	Flow rate (litres/minute)	Number of fittings
1	Howdens Kitchen Sink		7.00	1
2				
3				
4				
Proportionate flow rate (litres/min)			4.90	
Consumption / person / day (Litres)			13.44	

WASTE DISPOSAL UNIT	
Is a waste disposal unit specified for the dwelling?	No
Consumption / person / day (Litres)	
0.00	

WATER SOFTENER		
Water Softener in use?	No	
Total capacity used per regeneration (%)		
Water consumed per regeneration (litres)		
Average number of regeneration cycles per day (No.)		
Number of occupants served by the system (No.)		
Water consumed beyond 4% person / day (Litres)		0.00

**4th step - Analyse Results** [Go to Start](#)

INTERNAL WATER CONSUMPTION		
NET INTERNAL WATER CONSUMPTION	(litres/person/day)	130.95
RAINWATER ONLY COLLECTION SAVING	(litres/person/day)	0.00
GREYWATER ONLY RECYCLING SAVING	(litres/person/day)	0.00
RAIN/GREYWATER COLLECTION SAVING (combined system)	(litres/person/day)	0.00
NORMALISATION FACTOR	(litres/person/day)	0.91
TOTAL WATER CONSUMPTION	(litres/person/day)	119.2
CSH CREDITS ACHIEVED		1
CSH MANDATORY LEVEL:		Level 1/2

17. K COMPLIANCE		
EXTERNAL WATER USE	(litres / person / day)	5.00
TOTAL WATER CONSUMPTION	(litres / person / day)	124.2
17. K COMPLIANCE?		Yes

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