



Job no:	16.385
Date:	17/02/2017
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Registration no:	APCOE-12
Development name:	Rear of 29, Main Road, Little Thetford. CB6 3HA
Issue Date:	12/02/2017

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)

Dwelling Description	ALL PLOTS
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1st step - Select from options below:

Is a Rain and/or Greywater system specified?	Rainwater	
Is a shower AND bath present?	Yes	
Has a washing machine been specified?	Yes	
Has a dishwasher been specified?	Yes	

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

TAPS <small>(excluding kitchen taps)</small>		Fitting type	Flow rate (litres/min)	Number of fittings
1		TARGET FLOW RATE	5.00	6
2				
3				
4				
Proportionate flow rate (litres/min)				3.50
Consumption / person / day (Litres)				9.48

BATHS		Fitting type	Capacity to overflow (litres)	Number of fittings
1		TARGET CAPACITY	170.00	1
2				
3				

4		
	Proportionate capacity to overflow (litres)	119.00
	Consumption / person / day (Litres)	18.70

SHOWERS			
	Fitting type	Flow rate (litres/min)	Number of fittings
1	TARGET FLOW RATE	12.00	1
2			
3			
4			
	Proportionate flow rate (litres/min)		8.40
	Consumption / person / day (Litres)		52.44

DISHWASHER			
	Fitting Type	Litres per place setting	Number of fittings
1	INTEGRATED	0.75	1
2			
3			
4			
	Proportionate litres per place setting		0.53
	Consumption / person / day (Litres)		2.70

WASHING MACHINES					Is this fitting using rainwater?	Number of Fittings using rainwater
	Fitting Type	Litres per kilogram of dry load	Number of fittings			
1	INTEGRATED	4.80	1	Yes		
2				Click to select		
3				Click to select		
4				Click to select		
Where no washing machines have been specified but plumbing for future supply of grey/rainwater was installed, please enter details:					Click to select	
	Proportionate of litres/kg of dry load		3.36			
	Consumption / person / day (Litres)		10.08			

WC's					Is this fitting using rainwater?	Number of Fittings using rainwater
	Fitting Type	Flush Type	Volume**	Number of fittings		
1	TARGET	Full Flush	6.00	3	Yes	
		Part Flush	4.00			

2	Full Flush			Click to select
	Part Flush			
3	Full Flush			Click to select
	Part Flush			
4	Full Flush			Click to select
	Part Flush			
		Average effective flushing volume (litres)	4.66	

Consumption / person / day (Litres)	20.60
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KITCHEN SINK TAPS			
	Fitting Type	Flow rate (litres/minute)	Number of fittings
1	TARGET FLOW RATE	12.00	1
2			
3			
4			
Proportionate flow rate (litres/min)			8.40
Consumption / person / day (Litres)			15.64

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

RAINWATER CALCULATIONS	Go to Start
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Part 1: Amount of rainwater collected		
Rainwater collection system in use?	Yes (Individual)	
Which approach is being followed from BS8515:2009?	INTERMEDIATE APPROACH	
Rainwater collection area	m ²	
Yield co-efficient		
Hydraulic filter efficiency		
Average rainfall	mm/yr	
Number of occupants served by the system	(Quantity)	
Percentage collected	%	100.00%
Daily rainwater collection	litres	0.00

Daily rainwater	(litres/person)	0.00
Part 2: Where is the rainwater to be used?		
WC Consumption	(litres/person/day)	0.00
Washing Machine Consumption	(litres/person/day)	0.00
Daily non potable water demand:	(litres/person/day)	0.00
Part 3: Savings provided by rainwater		
Remaining demand requiring mains top-up/additional collection	(litres/person/day)	0.00
Excess rainwater not currently used:	(litres/person/day)	0.00
Water savings from rainwater use:	(litres/person/day)	0.00

4th step - Analyse Results

[Go to Start](#)

INTERNAL WATER CONSUMPTION

NET INTERNAL WATER CONSUMPTION	(litres/person/day)	129.64
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)	118.0
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)	123.0
17. K COMPLIANCE?		Yes

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