



Job no:	17240
Date:	31st March 2017
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Issue Date:	

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	Typical House
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1st step - Select from options below:

Is a Rain and/or Greywater system specified?	No
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 (excluding kitchen taps)		Fitting type	Flow rate (litres/min)	Number of fittings
	1	basin taps	4.50	2
	2			
	3			
	4			
	Proportionate flow rate (litres/min)			3.15
	Consumption / person / day (Litres)			8.69

BATHS		Fitting type	Capacity to overflow (litres)	Number of fittings
	1	bath	188.00	1
	2			
	3			
	4			
	Proportionate capacity to overflow (litres)			131.60
	Consumption / person / day (Litres)			20.68

SHOWERS		Fitting type	Flow rate (litres/min)	Number of fittings
	1	Shower	9.00	2
	2			
	3			
	4			
	Proportionate flow rate (litres/min)			6.30
	Consumption / person / day (Litres)			39.33

DISHWASHER		Fitting Type	Litres per place setting	Number of fittings
	1	12 place washer	0.80	1
	2			
	3			
	4			
	Proportionate litres per place setting			0.56
	Consumption / person / day (Litres)			2.88

WASHING MACHINES		Fitting Type	Litres per kilogram of dry load	Number of fittings
	1	Eco Washer	6.20	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	4.34	
		Consumption / person / day (Litres)	13.02	
WC's				
	Fitting Type	Flush Type	Volume**	Number of fittings
1	Dual flush	Full Flush	4.50	2
		Part Flush	2.50	
2		Full Flush		
		Part Flush		
3		Full Flush		
		Part Flush		
4		Full Flush		
		Part Flush		
		Average effective flushing volume (litres)	3.16	
		Consumption / person / day (Litres)	13.97	
KITCHEN SINK TAPS				
	Fitting Type	Flow rate (litres/minute)	Number of fittings	
1	Kitchen Tap	5.50	1	
	2			
	3			
	4			
		Proportionate flow rate (litres/min)	3.85	
		Consumption / person / day (Litres)	12.78	
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
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INTERNAL WATER CONSUMPTION		
NET INTERNAL WATER CONSUMPTION	(litres/person/day)	111.35
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)	101.3
CSH CREDITS ACHIEVED		3
CSH MANDATORY LEVEL:		Level 3/4

17. K COMPLIANCE		
EXTERNAL WATER USE	(litres / person / day)	5.00
TOTAL WATER CONSUMPTION	(litres / person / day)	106.3
17. K COMPLIANCE?		Yes

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