



Job no:	
Date:	03/12/2019
Assessor name:	Liam Bartlett
Registration no:	
Development name:	Broadoak Place

Dwelling Type:	1	2	3	4	5	6	7	8	9	10
Dwelling type description:	Plots 1-4	Plots 5-10								
WC	13.53	13.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Taps (excluding kitchen taps)	7.90	7.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bath	24.75	24.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shower	20.98	34.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kitchen sink taps	12.12	12.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Washing machine	17.16	17.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dishwasher	4.50	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste Disposal Unit	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Softener	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Contribution from Greywater										
Contribution from Rainwater										
Contribution from Grey/Rainwater (combined system)										
Normalisation factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Total Water Consumption	91.9	104.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Code for Sustainable Homes - credits awarded	3	3	0	0	0	0	0	0	0	0
CSH Mandatory Level	Level 3/4	Level 3/4	-	-	-	-	-	-	-	-
External Water Use	5	5	5	5	5	5	5	5	5	5
17. K - Litres/person/day	96.9	109.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17. K Compliance?	Yes	Yes	-	-	-	-	-	-	-	-

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Job no:	
Date:	03/12/2019
Assessor name:	Liam Bartlett
Registration no:	
Development name:	Broadoak Place, 1a Upper Redlands Road, Reading
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	Plots 1-4
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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?	No
Has a dishwasher been specified?	No

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		VAL 1/2 E4 C CD	4.00	1
	2	VT2 BASN C (restrictor reqd)	4.00	1
	3			
	4			
	Proportionate flow rate (litres/min)			2.80
Consumption / person / day (Litres)				7.90

BATHS		Fitting type	Capacity to overflow (litres)	Number of fittings
1		Ideal Standard Concept Space E0491	225.00	1
	2			
	3			
	4			

		Proportionate capacity to overflow (litres)		157.50
		Consumption / person / day (Litres)		24.75
SHOWERS				
	Fitting type	Flow rate (litres/min)	Number of fittings	
	1	Mira Advance Flex 9.8kW @32deg rise	4.80	2
	2			
	3			
	4			
	Proportionate flow rate (litres/min)			3.36
		Consumption / person / day (Litres)		20.98
DISHWASHER				
Where no dishwasher is specified, a default consumption figure of 1.25 litres per place setting is used.				
		Consumption / person / day (Litres)		4.50
WASHING MACHINES				
Where no washing machine is specified, a default consumption figure of 8.17 litres per kilogram of dry load is used.				
Where no washing machines have been specified but plumbing for future supply of grey/rainwater was installed, please enter details:				
		Consumption / person / day (Litres)		17.16
WC's				
	Fitting Type	Flush Type	Volume**	Number of fittings
1	Armitage Shanks Conceala 0470- S365867	Full Flush	4.00	2
		Part Flush	2.60	
2		Full Flush		
		Part Flush		

3		Full Flush		
		Part Flush		
4		Full Flush		
		Part Flush		
		Average effective flushing volume (litres)		3.06

Consumption / person / day (Litres)	13.53
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KITCHEN SINK TAPS		Fitting Type	Flow rate (litres/minute)	Number of fittings
	1	J SFSNK EF C - (Restrictor reqd)	4.00	1
	2			
	3			
	4			
Proportionate flow rate (litres/min)				2.80
Consumption / person / day (Litres)				12.12

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)	100.94
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)	91.9
CSH CREDITS ACHIEVED		3

CSH MANDATORY LEVEL:	Level 3/4
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17. K COMPLIANCE		
EXTERNAL WATER USE	(litres / person / day)	5.00
TOTAL WATER CONSUMPTION	(litres / person / day)	96.9
17. K COMPLIANCE?		Yes

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Job no:	
Date:	03/12/2019
Assessor name:	Liam Bartlett
Registration no:	
Development name:	BroadOak Place, 1a Upper Redlands Road, Reading
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	Plots 5-10
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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?	No
Has a dishwasher been specified?	No

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		VAL 1/2 E4 C CD	4.00	3
	2			
	3			
	4			
		Proportionate flow rate (litres/min)		
Consumption / person / day (Litres)				7.90

BATHS		Fitting type	Capacity to overflow (litres)	Number of fittings
1		Ideal Standard Concept Space E0491	225.00	1
	2			
	3			
	4			

		Proportionate capacity to overflow (litres)		157.50
		Consumption / person / day (Litres)		24.75
SHOWERS				
	Fitting type	Flow rate (litres/min)		Number of fittings
	1	Bristan Value 1475 VAC-LBSM E8 C MT	8.00	3
	2			
	3			
	4			
	Proportionate flow rate (litres/min)			5.60
		Consumption / person / day (Litres)		34.96
DISHWASHER				
Where no dishwasher is specified, a default consumption figure of 1.25 litres per place setting is used.				
		Consumption / person / day (Litres)		4.50
WASHING MACHINES				
Where no washing machine is specified, a default consumption figure of 8.17 litres per kilogram of dry load is used.				
Where no washing machines have been specified but plumbing for future supply of grey/rainwater was installed, please enter details:				
		Consumption / person / day (Litres)		17.16
WC's				
	Fitting Type	Flush Type	Volume**	Number of fittings
1	Armitage Shanks Conceala 0470- S365867	Full Flush	4.00	3
		Part Flush	2.60	
2		Full Flush		
		Part Flush		

3		Full Flush		
		Part Flush		
4		Full Flush		
		Part Flush		
		Average effective flushing volume (litres)		3.06

Consumption / person / day (Litres)			13.53
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KITCHEN SINK TAPS		Fitting Type	Flow rate (litres/minute)	Number of fittings
	1	J SFSNK EF C - (Restrictor reqd)	4.00	1
	2			
	3			
	4			
		Proportionate flow rate (litres/min)		2.80
Consumption / person / day (Litres)			12.12	

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)	114.92
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)	104.6
CSH CREDITS ACHIEVED		3

CSH MANDATORY LEVEL:	Level 3/4
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17. K COMPLIANCE		
EXTERNAL WATER USE	(litres / person / day)	5.00
TOTAL WATER CONSUMPTION	(litres / person / day)	109.6
17. K COMPLIANCE?		Yes

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