Consulting Civil Engineers

Installed Fittings

Sandpond Cottage, Pulborough, West Sussex, RH20 2HL

For

Mr & Mrs Riches

Rev – **P1**

Reference **C2665**

Date **14th May 2024**

Revision	Date of Issue	Comments	Prepared By	Checked By
P	10.05.2024	Initial Issue	LH	CS
P1	14.05.2024	Revised	LH	CS

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Tel: 01243 933253 E: mail@cgscivils.co.uk **W:** www.cgscivils.co.uk

1 Introduction

1.1.1 CGS Civils Ltd has been appointed by Mr and Mrs Riches to undertake an Installed Fittings report for a proposed development at Sandpond Cottage, Pulborough, West Sussex which proves that the client has followed the required measures that were listed within the Water Efficiency Measures report which was carried out by CGS Civils Ltd – Ref: **C2665 Water Efficiency Measures**

1.1.2 The water neutrality report – Ref: **C2665 Water Neutrality Report** – has stated that the water demand from the proposed 1-bedroom annexe will be reduced down to **102.70 l/day** and the water demand from the existing 3-bedroom dwelling is to be reduced from **373.32 l/day** to **284.24 l/day** in order to offset the water demand from the annexe.

2 Installed Fittings for 1-bedroom annexe

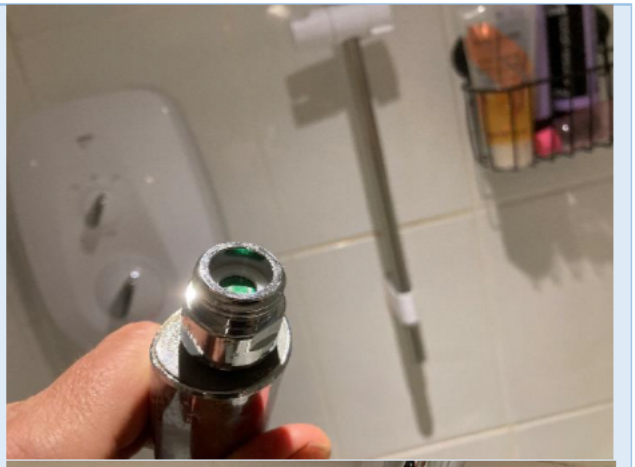
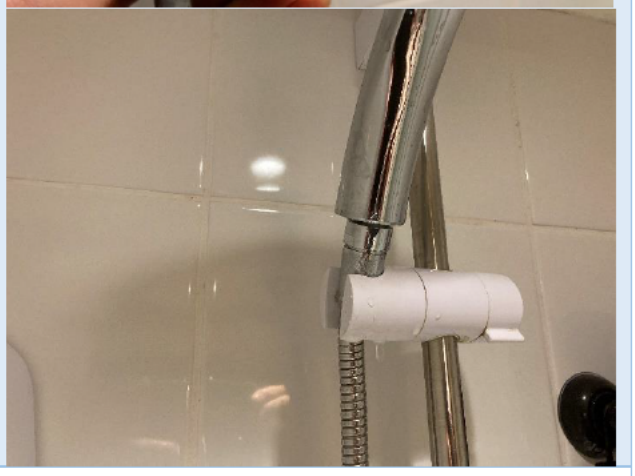
Fitting Type	Water Reduction Measure:	Does installed measure match required water demand?	Proof of purchase
Toilet	Fitted 2lt cistern displacement bag reducing the flush volume to 3.5 litres/flush.	Required Water Demand: 5.84 + 7.70 = 13.54 l/p/day (dual Flush) Installed measures water demand: 15.47 l/p/day	
Basin Taps	Fitted 2l/min tap limiter	Required Water Demand: 5.53 l/p/day Installed Measures Water Demand: 4.74 l/p/day	

Showers	Fitted 7 litres per minute limiter	Required Water Demand: 39.20 l/p/day Installed Water Demand: 39.20 l/p/day	
Kitchen Taps	Fitted 4 litres per minute	Required Water Demand: 12.56 l/p/day Installed Water Demand: 12.12 l/p/day	
Washing Machine	Not changed	11.55 l/p/day	
Dishwasher	Not changed	2.62 l/p/day	
External Water Usage:	Fitted 210 water butt to cover external areas	0 l/p/day	
Total Water Demand:			77.54 l/p/day. x 1.32 = 102.35 l/day

3 Installed Fittings in existing 3-bedroom dwelling

Fitting Type	Water Reduction Measure:	Does installed measure match required water demand?	Proof of purchase
Toilet	Fitted 2lt cistern displacement bag reducing the flush volume to 3.5 litres/flush.	Required Water Demand: 5.84 + 7.70 = 13.54 l/p/day (dual Flush) Installed measures water demand: 15.47 l/p/day	    

Basin Taps	Fitted 2l/min tap limiter	Required Water Demand: 5.53 l/p/day Installed Measures Water Demand: 4.74 l/p/day	   

Showers	Fitted 7 litres per minute limiter	Required Water Demand: 30.60 l/p/day Installed Water Demand: 30.60 l/p/day	 
Bath	Not Changed	20.35 l/p/day	

Kitchen Taps	Fitted 4 litres per minute	Required Water Demand: 12.56 l/p/day Installed Water Demand: 12.12 l/p/day	
Washing Machine	Fitted 5.5 litres per kg	Required Water Demand: 11.55 l/p/day	
Dishwasher	Not changed	2.62 l/p/day	
External Water Usage:	Fitted 210 water butt to cover external areas	0 l/p/day	
Total Water Demand:			88.23 l/p/day.
			x 3 = 264.69 l/day

4 Conclusion

4.1.1 Based upon the purchased and installed fittings, the annexe's water demand is **102.35 l/day.** The main house has had the water usage reduced from **373.32 l/day** down to **264.69 l/day** which is a saving of **108.63 l/day** which proves that the annexe is water neutral. Invoices can be found within the Appendices.

5 Appendices:

5.1 Appendix A:

Water Calculator from Building Regulations Part G for 1-bedroom Annexe

The Water Calculator for New Dwellings with Water efficient measures					
Installation Type	Unit of measure	Volume/ flow rate	Use factor	Fixed use	Litres/person/day
WC (Single Use)	Flush volume (l)	3.5	4.42	0	15.47
WC (Dual Flush)	Full Flush Vol.	0	1.46	0	0
	Part Flush vol.	0	2.96	0	0
WC (Multiple Fittings)	Average effective flush volume (l)	0	4.42	0	0
Taps (excl. Kitchen)	Flow rate (l/min)	2	1.58	1.58	4.74
Bath (shower also present)	Capacity to overflow (l)	0	0.11	0	0
Shower (bath also present)	Flow rate (l/min)	0	4.37	0	0
Bath only	Capacity to overflow (l)	0	0.5	0	0
Shower only	Flow rate (l/min)	7	5.6	0	39.20
Kitchen sink taps	Flow rate (l/min)	4	0.44	10.36	12.12
Washing Machine	Litres/kg dry load	5.5	2.1	0	11.55
Dishwasher	litres/place setting	0.73	3.6	0	2.62
Waste disposal unit	litres/use	0	3.08	0	0
Water softener	litres/person/day	0	1	0	0
		Total Calculated use (l/p/d)			85.70
		Contribution from greywater (l/p/d)			0
		Contribution from rainwater (l/p/d)			5
		Normalisation factor			0.91
		External water use			5
		Total water consumption (36(1)) (l/p/d)			77.54

5.2 Appendix B:

Water Calculator from Building Regulations Part G for Existing 3-bedroom dwelling

The Water Calculator for New Dwellings with Water efficient measures					
Installation Type	Unit of measure	Volume/ flow rate	Use factor	Fixed use	Litres/person/day
WC (Single Use)	Flush volume (l)	3.5	4.42	0	15.47
WC (Dual Flush)	Full Flush Vol.	0	1.46	0	0
	Part Flush vol.	0	2.96	0	0
WC (Multiple Fittings)	Average effective flush volume (l)	0	4.42	0	0
Taps (excl. Kitchen)	Flow rate (l/min)	2	1.58	1.58	4.74
Bath (shower also present)	Capacity to overflow (l)	185	0.11	0	20.35
Shower (bath also present)	Flow rate (l/min)	7	4.37	0	30.60
Bath only	Capacity to overflow (l)	0	0.5	0	0
Shower only	Flow rate (l/min)	0	5.6	0	0
Kitchen sink taps	Flow rate (l/min)	4	0.44	10.36	12.12
Washing Machine	Litres/kg dry load	5.5	2.1	0	11.55
Dishwasher	litres/place setting	0.73	3.6	0	2.62
Waste disposal unit	litres/use	0	3.08	0	0
Water softener	litres/person/day	0	1	0	0
		Total Calculated use (l/p/d)			97.45
		Contribution from greywater (l/p/d)			0
		Contribution from rainwater (l/p/d)			5
		Normalisation factor			0.91
		External water use			5
		Total water consumption (36(1)) (l/p/d)			88.23

5.3 Appendix C

Invoices from installed fittings

Your Amazon.co.uk order of "Toilet Tank Bank Water..." and 3 more item(s)

From: Amazon.co.uk (auto-confirm@amazon.co.uk)

To: [redacted]

Date: Tuesday, 2 April 2024 at 22:08 BST

Hello,

Thanks for your Amazon Marketplace order. We'll let you know once your item(s) have dispatched. Your estimated delivery date is indicated below. You can view the status of your order or make changes to it by visiting Your Orders on Amazon.co.uk.

Your purchase has been divided into 2 orders.

Order Confirmation

Arriving:
Saturday, April 6

Your order will be sent to:
[redacted]
Pulborough, West Sussex
United Kingdom

Your delivery option:
Standard Delivery

[redacted]

View order details



Faucet Tap Aerator Plastic Insert Re...

Condition: New

Sold by: plumbing4home

Qty: 1

[redacted]



4 L/min Tap Aerator Plastic Insert R...

Condition: New

Sold by: plumbing4home

Qty: 2

[redacted]9

Order Total: [redacted]

Selected Payment Method: [redacted]

Order Confirmation

Arriving:

Friday, April 5 - Saturday, April 6

Your order will be sent to:

[redacted]

Pulborough, West Sussex
United Kingdom

Your delivery option:

Standard Delivery

[redacted]

View order details



Toilet Tank Bank Water Conserving Ta...

Condition: New

Sold by: lowenergysupermarket

Qty: 1

[redacted]

Order Total: [redacted]

Selected Payment Method: [redacted]

If you use a mobile device, you can receive notifications about the delivery of your package and track it from our free Amazon app.

Unless otherwise noted, items sold by Amazon EU Sarl are subject to Value Added Tax based on country of delivery in accordance with the EU laws on distance selling. If your order contains one or more items from a seller other than Amazon EU Sarl, it may also be subject to VAT, depending upon the seller's business policies and the location of their operations. Learn more about VAT and seller information.

If your item(s) are purchased from Amazon Marketplace, the seller may request additional information such as the VAT number or your VAT code, in order to issue a valid invoice.

This e-mail is only an acknowledgement of receipt of your order. Your contract to purchase these items is not complete until we send you an e-mail notifying you that the items have been dispatched.

Please note: This e-mail was sent from a notification-only address that can't accept incoming e-mail. Please do not reply to this message.

.co.uk Deliver to [redacted] Pulborough RH20 2 All Search Amazon.co.uk Hello [redacted] Account & Lists Returns & Orders 0

All Customer Service Buy Again Amazon Business Browsing History amazon business | Downloadable VAT invoices >

Amazon.co.uk Today's Deals Warehouse Deals Outlet Subscribe & Save Vouchers Amazon Prime Prime Video Prime Student Mobile Apps

Order Details

Ordered on 2 April 2024 [redacted] Invoice

Delivery Address
Pulborough, West Sussex RH20 2
United Kingdom
[redacted]

Order Summary
Item(s) Subtotal: [redacted]
Postage & Packing: [redacted]
Total Before VAT: [redacted]
VAT: [redacted]
Total: [redacted]
Grand Total: [redacted]

Transactions

Delivered 5 Apr 2024

Track package



Faucet Tap Aerator Plastic Insert Replacement 2 L/min 22mm 24mm
Sold by: plumbing4home
Eligible for return until 6 May 2024
[redacted]
Condition: New
Buy it again



4 L/min Tap Aerator Plastic Insert Replacement Water Saving 22mm 24mm
Sold by: plumbing4home
Eligible for return until 6 May 2024
[redacted]
2 Condition: New
Buy it again

Problem with order
Return items
Share gift receipt
Leave seller feedback
Write a product review
Archive order

Top picks for you

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Kind Hearts & Coronets 70th Anniversary Edition [DVD] [2019]
Dennis Price
1,188
DVD
£7.99
Get it as soon as **Thursday, Apr 25**
FREE Delivery on orders dispatched by Amazon over £25



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DVD
£4.99
Get it as soon as **Thursday, Apr 25**
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808
£12.44
Get it as soon as **Thursday, Apr 25**
FREE Delivery on orders dispatched by Amazon over £25



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7
£4.99
Get it as soon as **Thursday, Apr 25**
FREE Delivery on orders dispatched by Amazon over £25

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Page 1 of 2

Sponsored

Order acknowledgement

From: no.reply@diy.com

To: [redacted]

Date: Wednesday, 3 April 2024 at 17:55 BST

B&Q

Customer Services

0333 014 3357

Dear [redacted]

Thank you for your order

Order number [redacted]

Total Cost: [redacted]

Thank you for ordering from B&Q.

You'll find details of your order and delivery or collection information below. For help with questions about our service, please see the Customer Support pages of our website.

Payment details

[redacted]

Home Delivery

Details of your items are listed below. If you have selected a delivery date, this will also be shown. If you'd like to know more about our range of delivery options, please visit the **Delivery** pages of our website. Bought a new electrical or electronic product from us? Find out about our electrical recycling

Delivery address

[redacted]
Sandpond Cottage
Gay Street
Pulborough
West Sussex
RH20 2HL United Kingdom

service at diy.com/services/weee.

[redacted]

Home Delivery items (2)	Qty	Price

Choose an available delivery date convenient for you. Please select a delivery date at checkout. Item delivered to doorstep only. You will receive a text message the evening before to confirm your AM or PM delivery window. Please provide a mobile number for delivery updates.
Delivering **Thursday 11th April 2024** with OWNFLEET.

	**Ward 210L Water butt** Product code : 5021711038422	**2**	[redacted]
		Basket subtotal	[redacted]
		Delivery	**FREE**
		VAT	[redacted]
		Total	[redacted]

Kind regards,
B&Q Customer Services

© B&Q 2024

B&Q Limited, B&Q House, Chestnut Avenue, Chandler's Ford, Eastleigh SO53 3LE
Registered in England no. 973387. VAT number: 232555575

B&Q

Customer Services
0333 014 3357

[redacted]

Thank you for your order

Payment details

[redacted]

Total Cost: [redacted]

Thank you for ordering from B&Q.

You'll find details of your order and delivery or collection information below. For help with questions about our service, please see the Customer Support pages of our website.

[redacted]

Home Delivery

Details of your items are listed below. If you have selected a delivery date, this will also be shown. If you'd like to know more about our range of delivery options, please visit the **Delivery** pages of our website. Bought a new electrical or electronic product from us? Find out about our electrical recycling service at diy.com/services/weee.

Delivery address

[redacted]
Sandpond Cottage
Gay Street
Pulborough
West Sussex
RH20 2HL United Kingdom

[redacted]

Home Delivery items (2) **Qty** **Price**

Choose an available delivery date convenient for you. Please select a delivery date at checkout. Item delivered to doorstep only. You will receive a text message the evening before to confirm your AM or PM delivery window. Please provide a mobile number for delivery updates.
Delivering **Thursday 11th April 2024** with OWNFLEET.

	2	[redacted]



Ward 210L Water butt
Product code : 5021711038422

Basket subtotal	[redacted]
Delivery	**FREE**
VAT	[redacted]
Total	[redacted]

Kind regards,
B&Q Customer Services

© B&Q 2024

B&Q Limited, B&Q House, Chestnut Avenue, Chandler's Ford, Eastleigh SO53 3LE
Registered in England no. 973387. VAT number: 232555575

We're pleased to confirm your CURRYS order[redacted]

From: Currys (no_reply@currys.co.uk)

To: [redacted]

Date: Wednesday, 10 April 2024 at 09:18 BST

Please do not reply to this email. This is a servicing email. We cannot accept incoming replies.

Thanks for your order! Here's your receipt

H[redacted]. Thanks for shopping with us. We've attached your receipt for safekeeping.

In the meantime, we'll be prepping your order ready for delivery.

Order information

[redacted]

Order date:
10-04-2024 9:17

Delivery address:
[redacted]
Sandpond Cottage
Gay Street
RH20 2HL PULBOROUGH
United Kingdom

Billing address:
[redacted]
Sandpond Cottage
Gay Street
RH20 2HL PULBOROUGH
United Kingdom

[redacted]

Ordered item(s)



1x SAMSUNG - Series 5 ecobubble WW90TA046AE/EU 9 kg 1400 Spin Washing Machine - White [redacted]

Product code 645266

Standard delivery [redacted]

(delivery on Sunday 14 April 2024)

We will deliver your **Series 5 ecobubble WW90TA046AE/EU 9 kg 1400 Spin Washing Machine - White** on Sunday 14 April 2024.
You can now add or update your contact information, amend your visit date, or check your estimated delivery time [available from 8pm the evening before your visit date]. Just go to visitupdate.currys.co.uk and enter your order reference numbe[redacted]nd post code. You can use this to also live track your delivery on your visit date. If you have provided us with a mobile number, we will send you a text message as a reminder.

What will be done for you?

- We'll unpack your product and dispose of the packaging for you.
- Before we leave, we'll make sure you're happy with the work we have done.

What do you need to do?

- Be available at the property to accept your delivery.
- If you've purchased our recycling service, please disconnect your old product before we arrive and ensure it's free of water (fridges/freezers will also need to be defrosted). If you've also purchased installation, we'll disconnect it for you.
- Please bear in mind, we reserve the right not to complete your delivery / connection if it could cause injury to our delivery crews or to you; if it could cause damage to your property; if there is insufficient access to your property or if it falls outside of the technical connection requirements outlined by the manufacturer.

We'll also take your small electronics for recycling. Just have them ready for our driver to collect as soon as they arrive.

Payment breakdown

[redacted] [redacted] upfront

Total package

[redacted] upfront

Need help?

Visit our Help & Service Pages

Call us 0344 561 0000
Monday to Saturday 9am – 6pm,
Sunday 10am - 5pm

We'll recycle your old tech for free! Take it to your nearest store and let us take care of it.

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[redacted]
7.2kB

energy label 645266.pdf
126.3kB

Tapstore.com: New Order # 300181286

From: Sales (sales@tapstore.com)

To: [redacted]

Date: Tuesday, 2 April 2024 at 21:39 BST

Hello, [redacted]

Thank you for your order from Tapstore.com. Once your package ships we will send an email with a link to track your order. If you have any questions about your order please contact us at sales@tapstore.com or call us at 01342 321121 Monday - Friday, 9am - 5pm.

Your order confirmation is below. Thank you again for your business.

[redacted]6 (placed on 2 April 2024 21:35:23 BST)

Billing Information:

[redacted]
Sandpond Cottage
Gay Street
Pulborough, West Sussex, RH20 2HL
United Kingdom
[redacted]

Payment Method:

takepayments Hosted Payment

Shipping Information:

[redacted]
Sandpond Cottage
Gay Street
Pulborough, West Sussex, RH20 2HL
United Kingdom
[redacted]

Shipping Method:

Shipping Option - Standard Delivery

Item	Sku	Qty	Subtotal
Shower Flow Limiter 7 Litres Per Minute	SHW7L	3	[redacted]
Basin/Pillar Tap Flow Limiters 2 Litres Per Minute (Pair)	TAP2L	2	[redacted]
		Subtotal	[redacted]
		Shipping & Handling	[redacted]
		Tax	[redacted]
		Grand Total	[redacted]

Thank you again, **Tapstore.com**

currys

Billing Address
[redacted]
Sandpond Cottage
Gay Street
PULBOROUGH
RH20 2HL

Delivery Address
[redacted]
Sandpond Cottage
Gay Street
PULBOROUGH
RH20 2HL

Sales receipt no. [redacted]

Customer no. [redacted]
Order no. [redacted]
Branch no. 4944

Date of receipt 10 April 2024
Order date 10 April 2024

Reference	Description	VAT	Quantity Ordered	Sold Unit Price VAT incl.	Sold TOTAL VAT incl.
645266	SAMSUNG - Series 5 ecobubble WW90TA046AE/EU 9 kg 1400 Spin Washing Machine - White	20%	1	£399.00	[redacted]
	Delivery Charge	20%	1	£ 25.00	[redacted]

Total excluding VAT	[redacted]
Total VAT	[redacted]
Total including VAT	[redacted]

Payment type	
American Express	[redacted]