Building Services Engineering
Sustainability Consultants
Low Carbon Design

FOR:

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NEW BARN SCHOOL
WATER NEUTRALITY COMPLIANCE VALIDATION

Engineering Sustainability

Revision

Version No	Version Date	Status	Summary of Changes
1	31/01/25	DRAFT	-

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Authorisation

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Approved		Date	

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EXECUTIVE SUMMARY

This statement has been prepared by **FLATT** to confirm compliance with the Water Neutrality statement that was submitted in support of a planning application DC/21/2350 for the development at New Barn School, Guilford Road, Broadbridge Heath, Horsham, West Sussex. The application was for two additional classroom blocks to increase the student capacity by 60 Pupils with an additional 13 staff members.

The Water Neutrality Statement concluded that in order to achieve water neutrality for the school extension, water fittings in the existing school and properties would need to be upgraded with more water efficient fittings or the fitting of flow restrictors. The fittings identified were listed in the original statement. This document seeks to demonstrate that these works have been completed satisfactorily and that water neutrality has therefore been achieved.

Water Usage Reduction

Total Water Saving 11.89 + 2.8 = 14.69 l/p/d.

Water Usage for New Classrooms = 12.86 l/p/d which is less than the reduction so the new school extension will not use more water than existing.

Therefore, the fitting flow restrictors on existing Sinks, Wash basin and showers and changing W.C.'s to dual flush in the existing school buildings and Cottages reduces the existing water usage sufficiently to achieve the saving to reach Water Neutrality for the new extension.

Evidence

Photographs were taken of all newly installed flushing mechanisms and flow limiting valves. These are tabulated against the proposed improvement.

Validation

Flow measurements were taken at selected random fittings to verify that proposed water reduction flow rates were achieved.

1.0 INTRODUCTION

This statement has been prepared by **FLATT** to confirm compliance with planning for the development at New Barn School, Guilford Road, Broadbridge Heath, Horsham, West Sussex.

The proposal consisted of two additional classroom blocks to increase the student capacity by 60 Pupils with an additional 13 staff members. The additional classrooms posed an increased water usage demand on the site and this demand is offset by improving the water efficiency of the existing school installations.

	Current	Proposed
Pupils	60	120
Staff (FTE)	42	55
	102	175

A Water Neutrality Statement was produced that responded to Horsham District Council Planning Department which advised that the site is subject of Natural England's Position Statement for Applications within the Sussex North Water Supply Zone – September 2021 – Interim Approach.



Figure 1. Site Location Plan



Figure 2: Ground Floor Plan (New Buildings shown in blue)

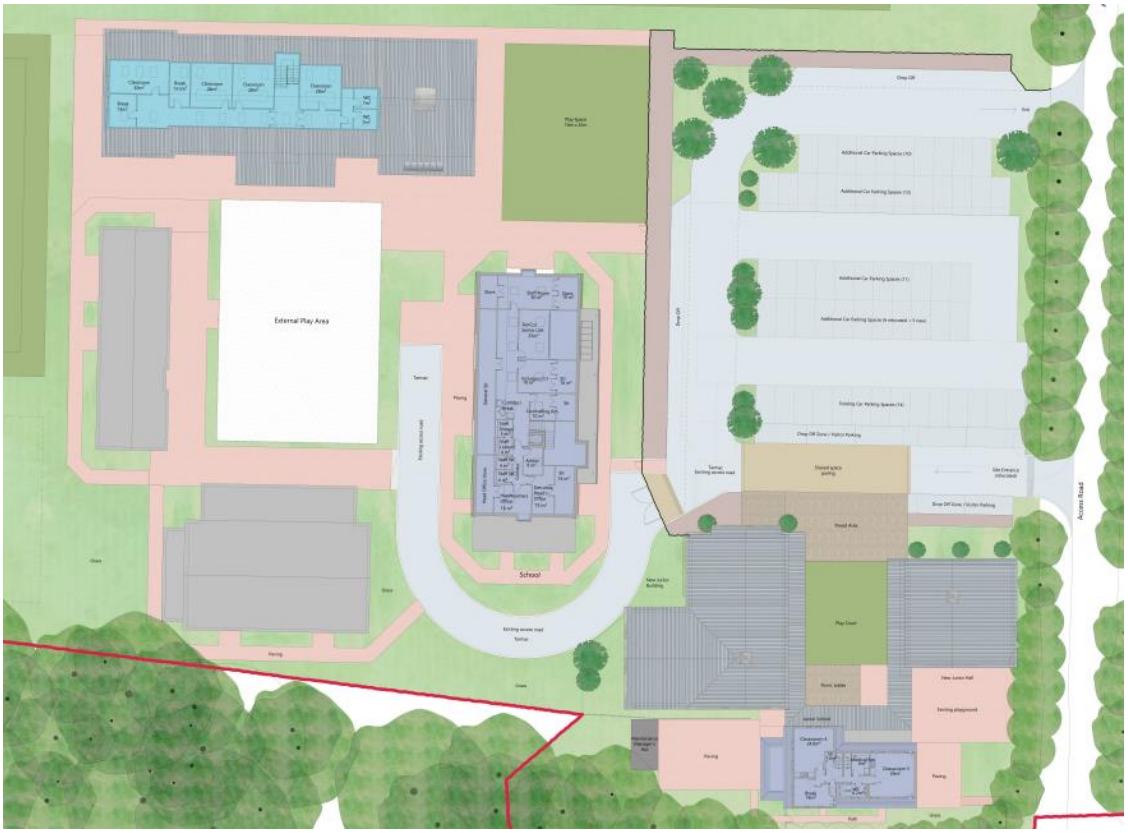


Figure 3: First Floor Plan (New Buildings shown in blue)

APPENDIX A

IMPROVEMENTS TO FLOW RATES AND CAPACITIES OF EXISTING APPLIANCES

The below table lists the agreed improvements to be made by changing flush mechanism or fitting of flow control valves. The Photo number in the end column corresponds to photos on the following pages which confirm the fitting of these mechanisms and valves.

New Barn School - Proposed Improvements					
Room	**Appliances**	**Flow Rate Cold (l/min)**	**Flow Rate Hot (l/min**	**Improvement**	**Photo No**
Main Building - Ground Floor					
Kitchen	Sink	24	24	Fit 3 l/min Flow limiter	2
	Sink	24	24	Fit 3 l/min Flow limiter	2
	WHB	24	24	Fit 3 l/min Flow limiter	3
Kitchen WC	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	5
	WHB	3	3		
Food Tech	Sink	4	4		
	Sink	4	4		
	Sink	4	4		
Prep Room	WHB	3	3		
Science Room	Sink	4	Cold Only		
	Sink	4	Cold Only		
	Sink	4	Cold Only		
	Sink	4	Cold Only		
Science Prep	Sink	12	12	Fit 6 l/min Flow limiter	6
Male Toilet	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	7
	WHB	3	3		
	WHB	3	3		
Female Toilet	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	8
	WHB	3	3		
	WHB	3	3		
WC1	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	9
	WHB	4	4	Fit 3 l/min Flow limiter	10
WC2	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	11
	WHB	4	4	Fit 3 l/min Flow limiter	12

Main Building - First Floor					**Photo No**
Staff WC1	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	13
	WHB	10	12	Fit 3 l/min Flow limiter	14
Staff WC2	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	15
	WHB	10	12	Fit 3 l/min Flow limiter	16
Staff WC3	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	17
	WHB	10	12	Fit 3 l/min Flow limiter	18
Shower Room		9 l/Min Combined		Fit 7 l/min Flow limiter	19
Art Room	Sink	10	12	Fit 6 l/min Flow limiter	20
Main Building - External					
	Bib Tap	24	Cold Only	Fit 3 l/min Flow limiter	
	Bib Tap	24	Cold Only	Fit 3 l/min Flow limiter	
Gym Block					
Female Change	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	21
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	22
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	23
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	24
Male Change	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	25
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	26
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	27
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	28
Dis WC	WC	7 litre flush			30
	WHB	4	4	Fit 3 l/min Flow limiter	29
Cleaners	Sink	24	24	Fit 6 l/min Flow limiter	31

Stable Block					**Photo No**
Toilets	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	32
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	33
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	34
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	35
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	36
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	37
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	38
	WHB	3.5	3.5	Fit 3 l/min Flow limiter	39
Classrooms	Sink	3.5	5		
	Sink	3.5	5		
	Sink	3.5	5		
	Sink	3.5	5		
Rapkyns Block					
Classrooms	Sink	5	5		
	Sink	5	5		
	Sink	5	5		
	Sink	5	5		
	Sink	5	5		
Staff WC	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	40
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	41
	WC	7 litre flush		Replace with Dual Flush 3/6 Litre	43
	WHB	11	7	Fit 3 l/min Flow limiter	44
	WHB	11	7	Fit 3 l/min Flow limiter	45
	WHB	11	7	Fit 3 l/min Flow limiter	46
Kitchen	Sink	24	6	Fit 6 l/min Flow limiter	47

Cottages							Photo No
				Cold Water Flow Rate l/s	Hot Water Flow Rate l/s	Improvement	
Clockhouse	Ground Floor	Toilet	Basin	11	4	Fit 6 l/min Flow limiter	
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	48
		Kitchen	Sink	19	9	Fit 8 l/min Flow limiter	49
			Dishwasher	Model: INDESIT DFG 15B1 ECOTIME			
		Utility	Sink	22	10	Fit 8 l/min Flow limiter	50
	Level 1	Bathroom 1	Basin	12	7	Fit 6 l/min Flow limiter	52
			Bath	140 litre			53
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	51
		Bathroom 2	Basin	7	7	Fit 6 l/min Flow limiter	56
			Bath	140 litre			55
			Shower	11	11	Fit 8 l/min Flow limiter	57
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	54

Farmhouse	Ground Floor	Toilet	Basin	14	9	Fit 6 l/min Flow limiter	58
			WC	7 Litre Flush			
		Kitchen	Sink	15	9	Fit 8 l/min Flow limiter	60
			Sink 2	9	7	Fit 8 l/min Flow limiter	61
			Dishwasher	Model: BEKO DWD5410			
			Washing Machine	Model: LG F1495KDS Steam Direct Drive 11kg			
	Level 1	Shower Room 1	Basin	11	7	Fit 6 l/min Flow limiter	62
			Shower	11	7	Fit 8 l/min Flow limiter	63
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	64
		Bathroom 1	Basin	12	7	Fit 6 l/min Flow limiter	65
			Bath	140 litre			
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	66
		Shower Room 2	Basin	11	8	Fit 6 l/min Flow limiter	67
			Shower	11	8	Fit 8 l/min Flow limiter	69
			WC	7 Litre Flush		Replace with Dual Flush 3/6 Litre	68

APPENDIX B

PHOTOGRAPHS OF NEW/REPLACED FLUSHING MECHANISMS AND FLOW LIMITING VALVES

The reference number and title to each photograph corresponds to the photo reference in Appendix A



Photo 1 – Main Building Kitchen



Photo 2 – Main Building Kitchen Sink



Photo 3 - Main Building Kitchen Sink



Photo 4 – Main Building Kitchen WHB



Photo 5 - Main Building Kitchen WC



Photo 6 - Main Building Science Prep



Photo 7 - Main Building Male WC

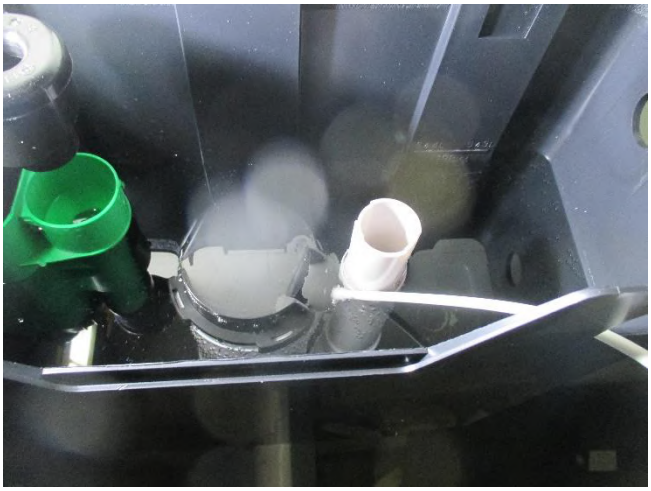


Photo 8 - Main Building Female WC



Photo 9- Main House WC1



Photo 10 - Main House WC1 WHB



Photo 11 - Main House WC2



Photo 12 - Main House WC2 WHB



Photo 13 – Main Building FF Staff WC1



Photo 14 - Main Building FF Staff WC1 WHB



Photo 15 - Main Building FF Staff WC2



Photo 16 - Main Building FF Staff WC2 WHB



Photo 17 - Main Building FF Staff WC3



Photo 18 - Main Building FF Staff WC3 WHB



Photo 19 - Main Building FF Shower Room



Photo 20 - Main Building FF Art Room



Photo 21 – Gym Block Female Change WC



Photo 22 - Gym Block Female Change WC



Photo 23 - Gym Block Female Change WHB

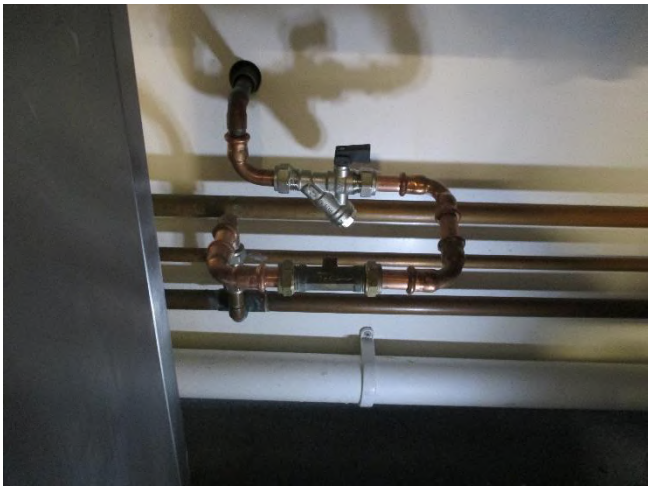


Photo 24 - Gym Block Female Change WHB



Photo 25 - Gym Block Male Change WC



Photo 26 - Gym Block Male Change WC



Photo 27 - Gym Block Male Change WHB



Photo 28 - Gym Block Male Change WHB

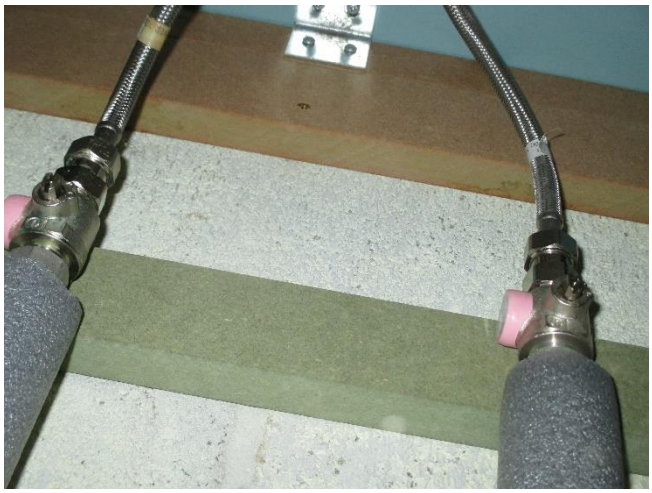


Photo 29 - Gym Block Dis WHB



Photo 30 - Gym Block Dis WC



Photo 31 - Gym Block Cleaners Sink



Photo 32 – Stable Toilets WC



Photo 33 - Stable Toilets WC



Photo 34 - Stable Toilets WC



Photo 35 - Stable Toilets WC



Photo 36 - Stable Toilets HWB



Photo 37 - Stable Toilets HWB



Photo 38 - Stable Toilets HWB



Photo 39 - Stable Toilets WC



Photo 40 – Rapkyns Staff WC



Photo 41 - Rapkyns Staff WC



Photo 42 - Rapkyns Staff WC



Photo 43 - Rapkyns Staff WC



Photo 44 - Rapkyns Staff WHB



Photo 45 - Rapkyns Staff WC



Photo 46 - Rapkyns Staff WHB

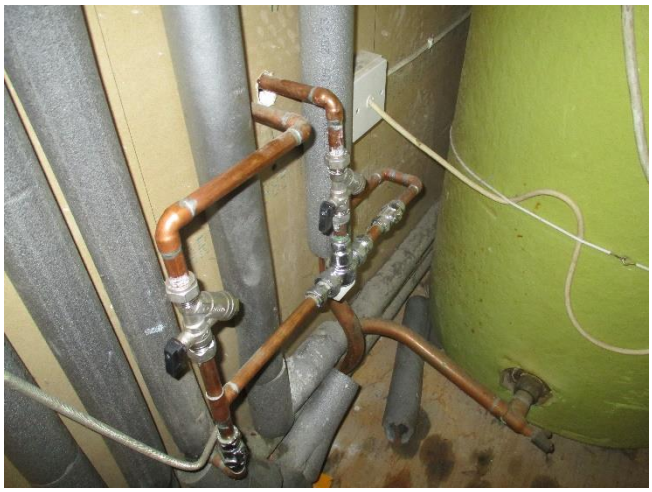


Photo 47 – Rapkyns Kitchen Sink



Photo 48 – Clock House GF WC



Photo 49 - Clock House GF Kitchen Sink



Photo 50 - Clock House Utility



Photo 51 - Clock House FF Bath1 WC



Photo 52 - Clock House FF Bath1 WHB



Photo 53 - Clock House FF Bath1 Bath



Photo 54 - Clock House FF Bath2 WC



Photo 55 - Clock House FF Bath2 Bath



Photo 56 - Clock House FF Bath2 WHB

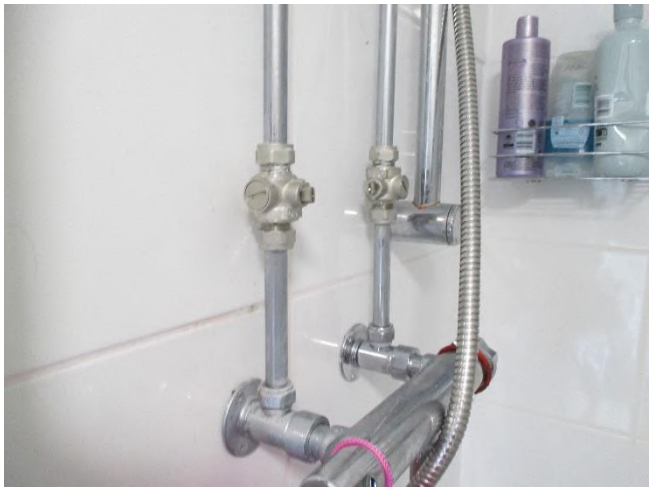


Photo 57 - Clock House FF Bath2 Shower



Photo 58 – Farm House GF Toilet WHB



Photo 59 - Farm House GF Toilet WC



Photo 60 - Farm House GF Kitchen Sink 1



Photo 61 - Farm House GF Kitchen Sink 2



Photo 62 - Farm House Shower Room HWB



Photo 63 - Farm House Shower Room Shower



Photo 64 - Farm House Shower Room WC



Photo 65 - Farm House FF Shower Room WHB



Photo 66 - Farm House FF Shower Room WC



Photo 67 - Farm House FF Shower Room 2 WHB



Photo 68 - Farm House FF Shower Room2 WC

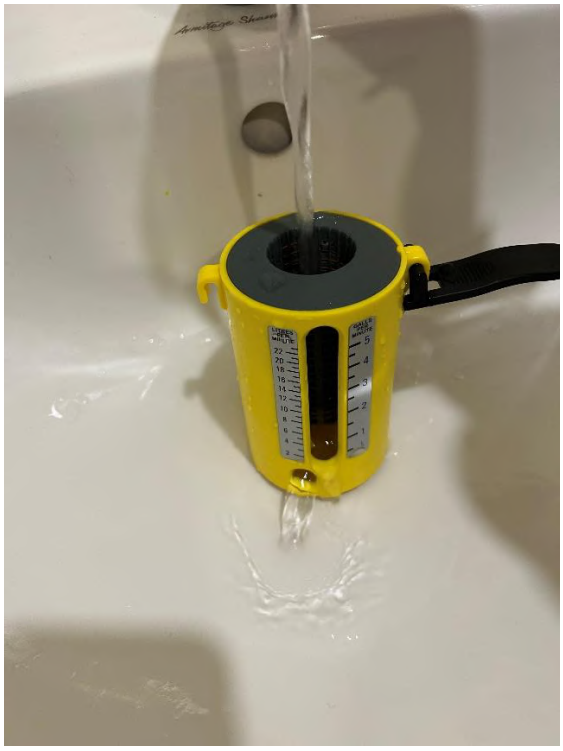


Photo 69 - Farm House Shower Room 2

APPENDIX C

VALIDATION FLOW RATES OF SELECTED FITTINGS

Flow measurement using Flow Cup



Main Building Male WHB – 3 l/s



Main Building Science Prep – 6 L/S



Main Building Kitchen Sink - 3 L/S



Main Building Staff WHB – 3 L/S



Gym Block Dis WHB – 3 L/S



Stable Block Toilets WHB – 3 L/S



Rapkyns Block Staff WHB – 3 l/s



Cottages Clockhouse Toilet WHB – 3 L/S



Cottages Farmhouse Toilet WHB – 3 L/S



Cottages Farmhouse Kitchen – 3 L/S

APPENDIX D

CATALOGUE PAGES OF NEW SANITARYWARE INSTALLED IN THE EXTENSION

811 calflow® plus

flow regulating ball valve





WRAS APPROVED PRODUCT

altecnic

811 calflow® plus flow regulating ball valve





Design

Combined into one valve body are a ball isolating valve, a strainer and automatic flow regulating valve, saving assembly time and space.

Flow regulation is achieved by pre-selecting the appropriate automatic flow cartridge to maintain a constant flow of water to a tap, mixer, shower or thermostatic mixing valve.

By pre-selecting the flow cartridge to match the desired flow from the outlet, savings in water consumption are easily achieved.

Features

The main benefits of the Calflow® Plus when used in hot, cold and mixed water supply pipes are;

- Isolation of outlet fittings should maintenance be required at some time in the future and when the strainer element requires cleaning.
- The generously proportioned strainer element collects debris without continually becoming clogged and restricting the water supply.
- The automatic flow cartridge allows a continuous and constant flow of water at the desired flow rate and prevents overflow from occurring.
- The flow cartridge is easily replaced.

Construction Details

- The body is constructed from brass with compression ends complying with BS EN 1254-2*.
- The cartridge is made of high resistance polymer to withstand a wide range of temperatures.
- 316 austenitic stainless steel strainer screen.
- Ball valve with PTFE seals for reliable isolation.
- Hard chrome plated ball for increased wear resistance.
- Nitrile rubber 'O' ring seals.

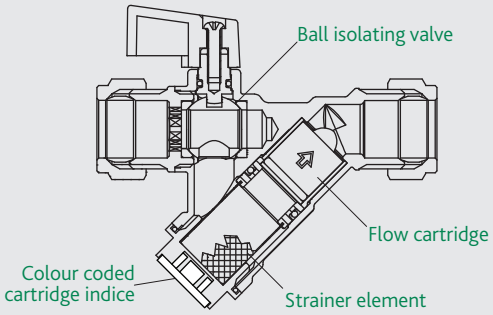
Calflow® Plus

By selecting the appropriate cartridge significant savings in water consumption can be achieved.

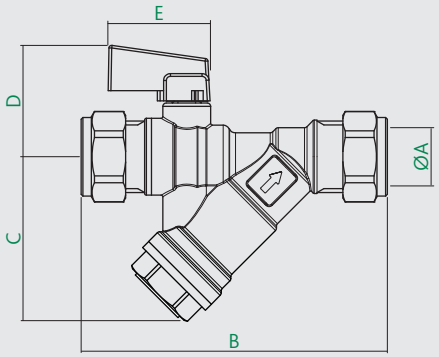
Used in conjunction with timed or electronic taps, controllers and showers additional savings can be achieved.

Product Code	Flowrate	Colour	Typical Application
AI-811215**			15mm valve body only
04	4 l/m	grey	Basin tap, pillar or mixer
06	6 l/m	black	Basin tap timed, electronic
08	8 l/m	white	Timed shower
10	10 l/m	blue	Thermostatic shower
12	12 l/m	red	Shower, bidet, kitchen tap
15	15 l/m	green	Shower, kitchen tap
18	18 l/m	grey	Bath G¾, kitchen tap

Features



Dimensions



Prod Code	A	B	C	D	E	kg
AI-811215**	15	90	47	33	30	0.21

Technical Data

Max. static pressure:	15 bar
Max. body inlet pressure:	10 bar
Max. inlet pressure inc flow regulator:	2 bar#
Maximum working temperature:	85°C
Start up differential pressure:	15 kPa
Differential pressure range:	15 to 200 kPa
Strainer mesh size:	400 µ - 0.4 mm

Installation

The Calflow® Plus is very simple to install with just two compression joints to make.

The flow through the valve must follow the direction of the arrow on the valve body.

The valve should be installed with the ball valve lever upper most for maximum efficiency of the strainer.

Sufficient clearance must be allowed for removal of the strainer cap (20mm A/F) and removal of the strainer element for cleaning.

Maintenance

The only recommended maintenance is that periodically the strainer element is removed and cleaned.

* Use with R250 (half hard) copper tube
\# For pressures above 2 bar a pressure reducing valve may need to be installed

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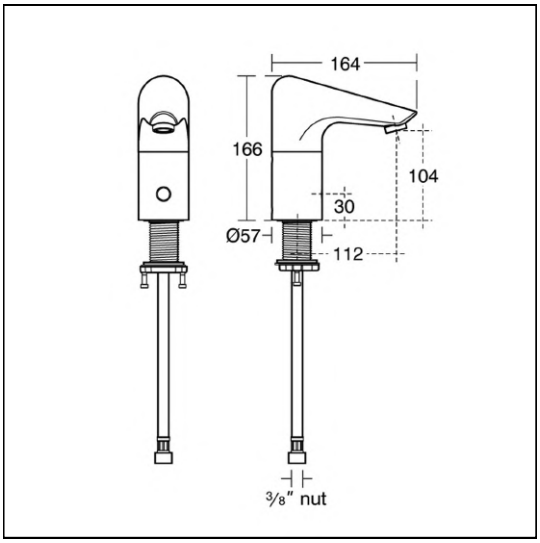
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ALTECNIC™

Sensorflow 21 Washbasin Tall Spout Electronic Sensor, Mains

ILLUSTRATED

A4171 Sensorflow 21 washbasin mounted tall spout with integral sensor, anti-vandal laminar flow outlet, copper tube inlet, servicing valve and filter, mains





ILLUSTRATED PRODUCT DETAILS

Weights

A4171 3.60 KG

Materials

A4171 Chrome Plated Brass

Finishes

A4171 Chrome (AA)

Flow rates

A4171 3.7 Litres per minute @ 3 bar pressure

Special Notes

Designed to be supplied with pre-mixed water.
Consideration should be given to safe hot water delivery and the use of an appropriate temperature reduction device, please see A5900AA (for use with 15mm pipework) or A5901AA (for use with 22mm pipework.
The sensor is set to work in the normal handwashing position. All spouts supplied complete with individual solenoid valve, copper tube inlet and combined servicing valve and filter. Spouts with integral sensors detect hands within the sensing range and the solenoid valve is opened. Automatically shuts off if sensor is obstructed for a maximum of 55 seconds. Flow rate regulated to 3.7 litres per minute at 1 bar minimum pressure.
Mains powered Sensorflow products must be connected to a continuous permanent power supply of these require 220-240 volts and each 1 having its own fuse spur.

ACCREDITATIONS

A4171(AA)

Unified Water Label 3.70 Litres Per Minute

FEATURES

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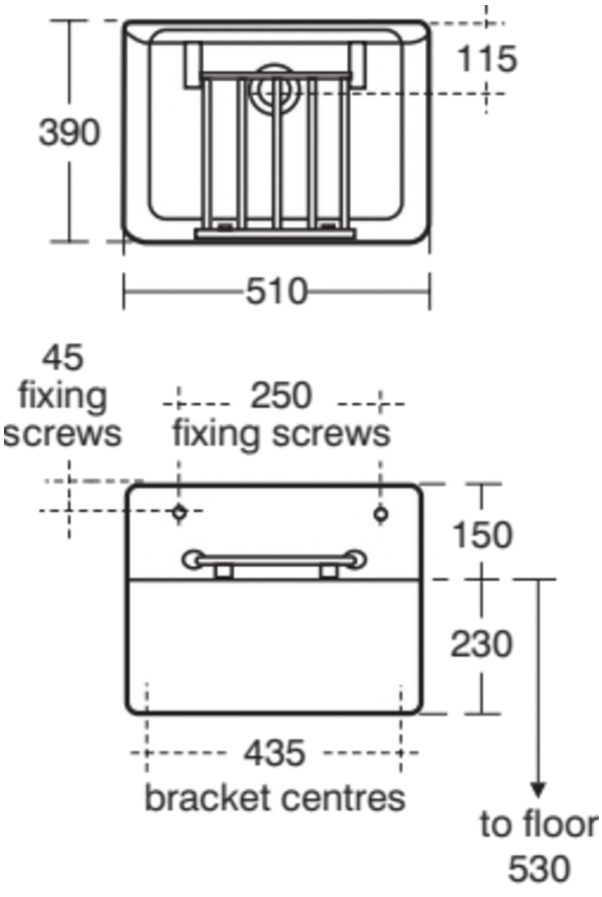
BIRCH

S592001

BIRCH | Sink basin 510x390x380 mm in white glossy finish

Image & drawing





General information

Product type:	Sink basins
Sub product type:	Sink basin
Brand:	Armitage Shanks
Suite name:	BIRCH
Colour:	01 - White Glossy
Surface finish effect:	glossy
Height (mm):	380
Width (mm):	510
Length / Projection (mm):	390
Fixing method:	Fixing bolts
Net weight (kg):	25.40
EAN code:	5012001465905

Legs can be reduced in height on site. Consideration may be given to safe hot water delivery and the use of an appropriate temperature reduction device see A5900AA

Product specifications

Colour code:	01
Colour description:	white glossy
Material:	Ceramic
Material quality:	Fireclay
Amount of washbasins:	1
PVD technology:	No
Support plateau:	None
Surface finish effect:	glossy
With back wall:	Yes
With bucket grating:	Yes
Fixing method:	Fixing bolts
Mounting method:	Wall

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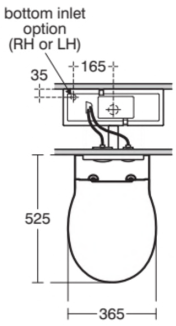
CONTOUR 21+

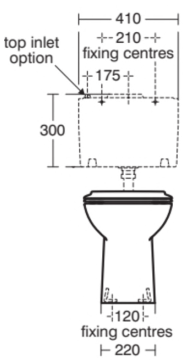
S0439HY

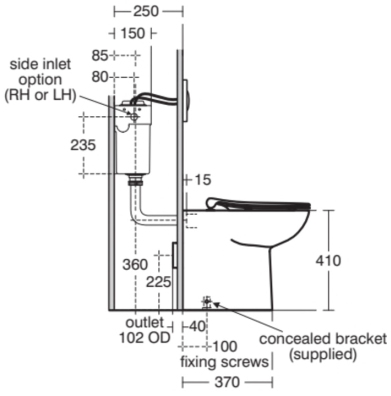
CONTOUR 21+ | Back-to-wall bowl 365x525x410 mm in white glossy finish, CL2 full flush 6 l/min, horizontal outlet | CL2, RimLS, SmartGuard+

Image & drawing









General information

Product type:	Toileting
Sub product type:	Back-to-wall bowl
Brand:	Armitage Shanks
Suite name:	CONTOUR 21+
Designer:	Studio Levien
Colour:	HY - White Glossy
Surface finish effect:	glossy
Height (mm):	410
Width (mm):	365
Length / Projection (mm):	525
Fixing method:	Fixing set
Net weight (kg):	23.87
EAN code:	5017830526872

WC bowl screwed to floor using concealed brackets (supplied). When using a lever the concealed cistern should be raised to 565mm from floor to underside of cistern. Oleas, Solea, Altes & Symfo are compatible with Prosys cisterns only. Please see flushplate section for full finish/colour options.

Features

CL2: 6 l/min

RimLS

SmartGuard+

Downloads

- EPD

Product standard & certifications

Additional standards:	EN 997
DoP classification:	CL2

Product specifications

CL2 full flush max. (l):	6
Children's model:	No
Colour code:	HY
Colour description:	white glossy
Concealed fixing:	No
Type of flushing:	Washdown
Disabled model:	No
Material:	Ceramic
Material quality:	Vitreous china
Outlet location:	Middle
Outlet orientation:	Horizontal
PVD technology:	No

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Ideal Standard

CONTOUR 21+

S0439HY

CONTOUR 21+ | Back-to-wall bowl 365x525x410 mm in white glossy finish, CL2 full flush 6 l/min, horizontal outlet | CL2, RimLS, SmartGuard+

Product specifications

Position of water supply:	Rear
Raised model:	No
SmartGuard+ technology:	Yes
Surface finish effect:	glossy
Type of water supply:	Concealed
With bidet function:	No
With hygienic recess / fixed toilet seat:	No
With stench extraction:	No
Fixing method:	Fixing set
Mounting method:	Floor

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Date created: 07/2024

Ideal Standard

CONTOUR 21+

S0683AC

CONTOUR 21+ | Bathroom bundle in white finish

Image & drawing

Armitage Shanks

General information

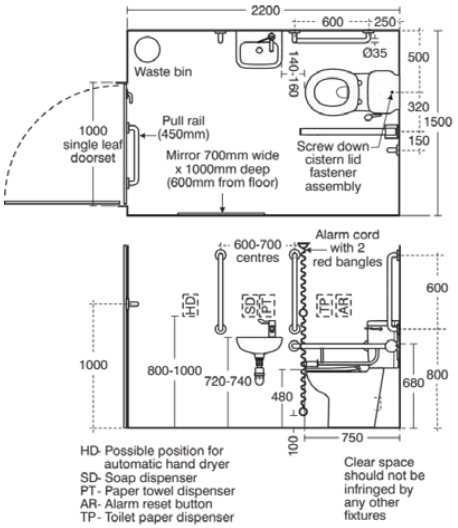
Sub product type	Bathroom bundle
Brand	Armitage Shanks
Suite name	CONTOUR 21+
Colour code	AC
Colour description	White
Surface finish effect	glossy
EAN code	5017830532521
Net weight (kg)	66.41

Downloads

- BIM-UK

Product specifications

PVD technology	No
IdealPlus technology	No



Notes:
Left hand corner installation illustrated

This layout is only suitable where it is not the only toilet facility within the building

Wall and floor finishes must contrast visually

Wall finish must contrast with grab rails and sanitary fittings

Emergency lighting must be provided

Lever action tap supplied

Door is to be fitted with light action privacy bolts with emergency release mechanisms

The wc pan is capable of accepting variable height toilet seats

Any fire alarm emits a visual and audible signal to warn occupants with hearing or visual impairments

Any emergency assistance alarm system has:-

i) Visual and audible indicators to confirm that an emergency call has been received

ii) A reset control reachable from a wheelchair and the WC or from the wheelchair and the shower/ changing seat

iii) A signal that is distinguishable visually and audibly from the fire alarm

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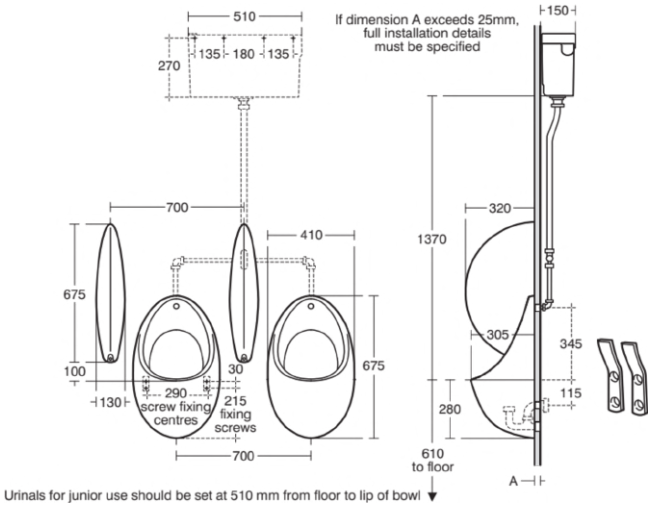
CONTOUR

S611001

CONTOUR | Urinal 410x305x675 mm in white glossy finish, no waste | HTM64 (UR H), RimLS

Image & drawing





General information

Product type:	Toileting
Sub product type:	Urinal
Brand:	Armitage Shanks
Suite name:	CONTOUR
Designer:	Ideal Standard
Colour:	01 - White Glossy
Surface finish effect:	glossy
Height (mm):	675
Width (mm):	410
Length / Projection (mm):	305
Fixing method:	Fixing set
Net weight (kg):	16.80
EAN code:	5012001109489

See auto cistern and flush pipe selector page, for selection of multi bowl and pipework ranges. For sensor flush see Sensorflow 21 urinal flushing device page

Features

HTM — HTM64 (UR H)

RimLS — RimLS

Downloads

- EPD

Product standard & certifications

Additional standards:	EN 13407
DoP classification:	CL1 - I - 5C

Product specifications

Colour code:	01
Colour description:	white glossy
Concealed fixing:	Yes
Corner model:	No
Cover mounting possible:	No
HBN compliant:	HBN 00-10
HTM compliant:	HTM64 (UR H)
Including battery:	No
Including flushing valve:	No
Including inlet hose:	No
Including top inlet adapter:	No
Including waterless cartridge:	No
Ladies model:	No
Material:	Ceramic
Material quality:	Vitreous china

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CONTOUR

S611001

CONTOUR | Urinal 410x305x675 mm in white glossy finish, no waste | HTM64 (UR H), RimLS

Product specifications

PVD technology:	No
Surface finish effect:	glossy
Waterless:	No
Including cover:	No
With earthing feature:	No
With electronic control unit:	No
With spreader:	No
With target point:	No
With waste set:	No
Fixing method:	Fixing set
Flushing water connection:	Back inlet
Mounting method:	Wall

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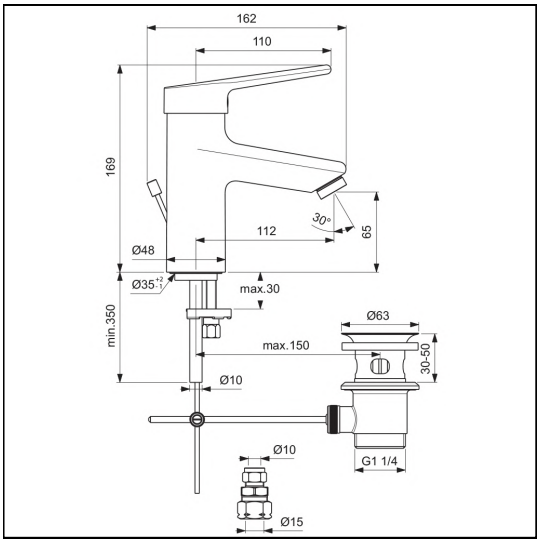
Date created: 07/2024

Contour 21+ Single Lever One Hole Basin Mixer With Pop-up Waste

ILLUSTRATED

BC119 Contour 21+ single lever one hole basin mixer with pop-up waste and copper tails





ILLUSTRATED PRODUCT DETAILS

Weights

BC119 1.91 KG

Materials

BC119 Chrome Plated Brass

Finishes

BC119 Chrome (AA)

Flow rates

BC119 5 Litres per minute @ 3 bar pressure

Designer

Artefakt Industriekultur

Standards

Manufactured in accordance to BS EN 817

Special Notes

Suitable for balanced supplies. Inlets 15mm copper tails. Consideration should be given to safe hot water delivery and the use of an appropriate temperature reduction device, please see A5900AA (for use with 15mm pipework) or A5901AA (for use with 22mm pipework). Fitted with a 5 litre per minute outlet flow regulator. Minimum pressure 1 bar.

ACCREDITATIONS

FEATURES

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WONDER VALVES

- Combined isolating ball valve and flow regulator
- WRAS approved
- Flow regulating options 3 - 18 litres per minute

controls flow and saves water



compression screwdriver operated wonder valves

code	connection	flow limiter
CP961XC15	15mm	none
CP961R03XC15	15mm	3 litre
CP961R04XC15	15mm	4 litre
CP961R06XC15	15mm	6 litre
CP961R08XC15	15mm	8 litre
CP961R10XC15	15mm	10 litre
CP961R12XC15	15mm	12 litre
CP961R15XC15	15mm	15 litre
CP961R18XC15	15mm	18 litre
CP961XC22	22mm	none
CP961R03XC22	22mm	3 litre
CP961R04XC22	22mm	4 litre
CP961R06XC22	22mm	6 litre
CP961R08XC22	22mm	8 litre
CP961R10XC22	22mm	10 litre
CP961R12XC22	22mm	12 litre
CP961R15XC22	22mm	15 litre
CP961R18XC22	22mm	18 litre



compression lever operated wonder valves

code	connection	flow limiter
CP961XLC15	15mm	none
CP961R03XLC15	15mm	3 litre
CP961R04XLC15	15mm	4 litre
CP961R06XLC15	15mm	6 litre
CP961R08XLC15	15mm	8 litre
CP961R10XLC15	15mm	10 litre
CP961R12XLC15	15mm	12 litre
CP961R15XLC15	15mm	15 litre
CP961R18XLC15	15mm	18 litre
CP961XLC22	22mm	none
CP961R03XLC22	22mm	3 litre
CP961R04XLC22	22mm	4 litre
CP961R06XLC22	22mm	6 litre
CP961R08XLC22	22mm	8 litre
CP961R10XLC22	22mm	10 litre
CP961R12XLC22	22mm	12 litre
CP961R15XLC22	22mm	15 litre
CP961R18XLC22	22mm	18 litre

waterwise AWARD WINNING WATER SAVER

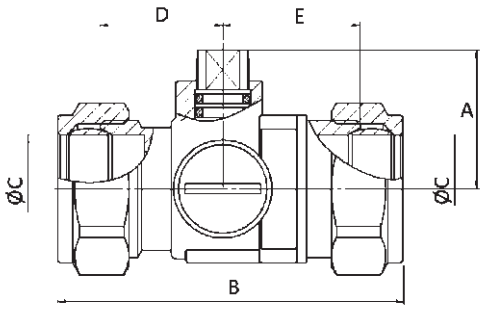
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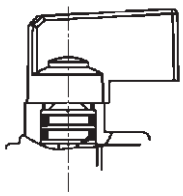
inta

FLOW REGULATION

WONDER VALVES



	15mm	22mm
A	27.3	27.3
B	67	71
Ø C	15	22
D	23.6	23.5
E	27.4	27.4



Pressure rating	PN16
Operating temperature	0°C - 85°C

Body	Nickel plated DZR brass (CW602N)
End cap	Nickel plated DZR brass (CW602N)
Ball	Hard chrome plated DZR brass (CW602N)
Stem	Nickel plated DZR brass (CW602N)
Access port cap	Nickel plated DZR brass (CW602N)
Compression nuts	Nickel plated DZR brass (CW602N)
Olives	Brass
Seats	PTFE
Seals	EPDM

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UNIVERSAL REPAIR KIT

for syphon flushing toilets

Applications

Our complete repair kit for lever operated toilet cisterns

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~ Delay-fill compact float inlet valve

~ Duoflush Turbo Edge syphon - push & hold lever for reduced flush volume.

Features

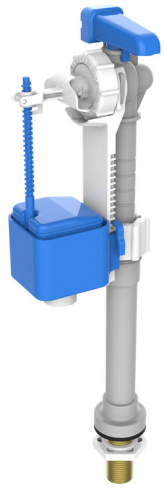
~ Compact Turbo Edge adjustable syphon will fit in more places than any other cistern

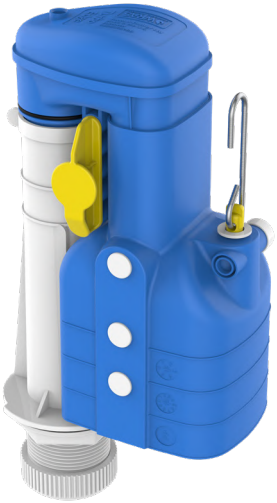
~ Hydroflo compact brass tailed telescopic bottom inlet valve

~ Contains chrome plated front flushing cistern lever

~ 3 year warranty

~ Easy fit & service.







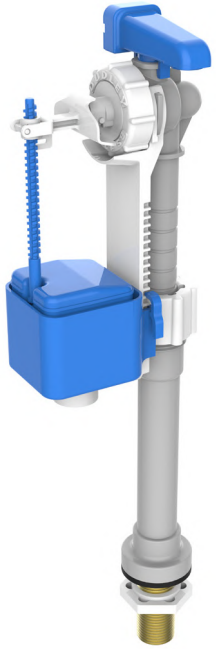
Technical Data

Inlet Valve	Hydroflo Compact Float Brass-tailed Telescopic
Outlet	Turbo Edge Syphon
Lever	Type E
Lever Finish	Chrome
Flush Option	Duoflush
Product Code	372687

THOMAS DUDLEY TD

HYDROFLO®

Telescopic inlet valve with Compact Float and Brass Tail



Applications

Designed for use as a replacement in most plastic and ceramic exposed and concealed cisterns

Also supplied as standard or as an optional extra in Dudley cisterns

~ True AG Air Gap
~ No silence tube

Water Saving

Delay fill saves water and supports BREEAM by only allowing a cistern to start refilling once flushing is complete.

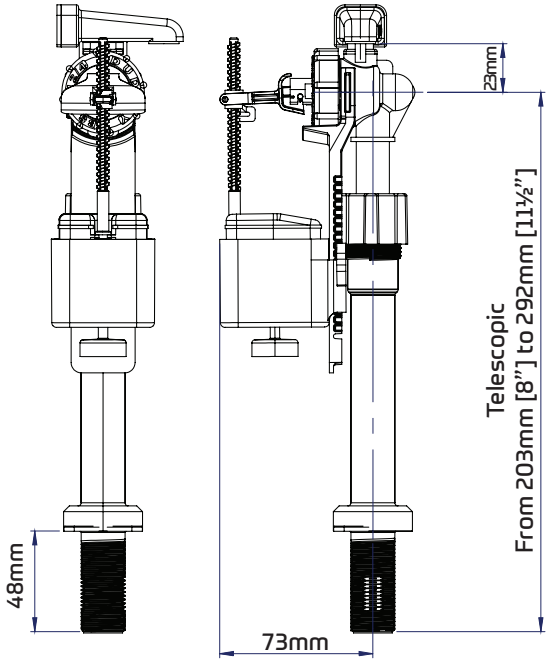
Features

~ Telescopic height adjustment - 203mm (8") to 292mm (11½")
~ Professional ½" BSP brass tail
~ Compact body and float assembly
~ New simple and efficient 2-piece filter design
~ Unique float arm makes it impossible for the float to become detached
~ 3 available options of quiet fill technology:

Valve Option	Fill Nozzle		Flow Control		WRAS Approved
	Standard	Enhanced	Restricted	Regulated	
Standard	✓		✓		✓
Enhanced		✓	✓		✓

~ **Enhanced** option offers integrated quiet fill action
~ **Flow Regulated** option includes integrated quiet fill action together with 6 litre per minute flow control for ultimate quiet fill performance.

Dimensional Data



Technical Data

Connection	½" BSP brass tail
Adjustment	65mm float height range
Valve Type	Diaphragm
Float	Compact (Delay-fill)
Conformity	BS 1212-4

THOMAS DUDLEY TD

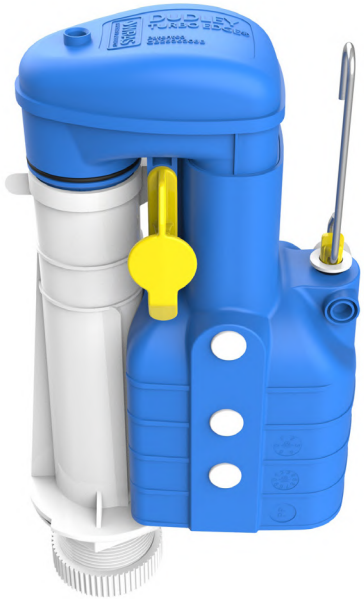
TURBO EDGE®

Adjustable Duoflush® Syphon

Applications

Our best ever syphon fits in all syphon flush ceramic and plastic WC cisterns.

Available as a replacement for all Dudley one piece and two piece syphons.



Water Saving

~ Dudley Duoflush® delivers water saving reduced flush when lever is held down and full flush when lever is depressed and released

~ 6/7/9 litre volume adjustment guaranteeing optimum flush performance.

Features

~ The world's most compact syphon - Fits all syphon flush ceramic and plastic WC cisterns

~ Height adjustable from 7½" (191mm) to 9½" (241mm)

~ Retrofits onto all existing Dudley downlegs; Turbo 88 Adjustable and Fixed Height, S44R and S1-11 syphon downlegs

~ The best performing syphon that fits all cisterns

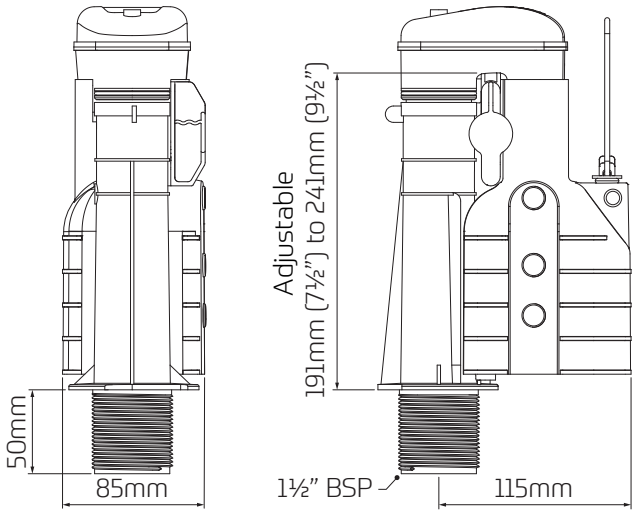
~ User-friendly light-touch operation

~ Fully captive yellow fixing pin does not need to be removed to install syphon, easing installation

~ Convertible to single flush

~ WRAS approved product.

Dimensional Data



Technical Data

Outlet	1½" BSP (48mm)
Flush Volume	6/7/9 Litre Convertible
Sizes	Adjustable from 191mm (7½") to 241mm (9½") in ½" increments
Cistern Type	Low Level
Product Code	370873

THOMAS DUDLEY TD

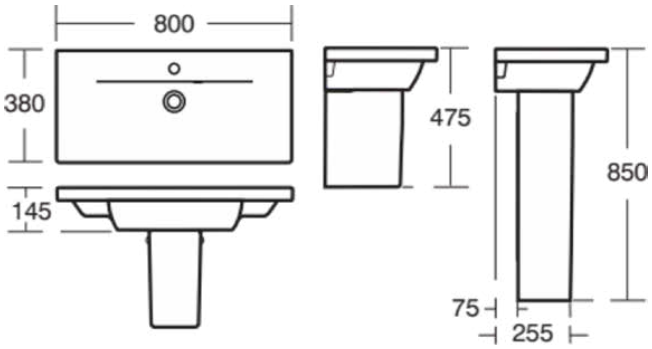
CONCEPT

E783701

CONCEPT | Full pedestal 193x188x720 mm in white glossy finish

Image & drawing





General information

Product type:	Pedestals
Sub product type:	Full pedestal
Brand:	Ideal Standard
Suite name:	CONCEPT
Designer:	Studio Levien
Colour:	01 - White Glossy
Surface finish effect:	glossy
Height (mm):	720
Width (mm):	193
Length / Projection (mm):	188
Fixing method:	Fixing set
Net weight (kg):	10.70
EAN code:	5017830389057

Downloads

- EPD

Product specifications

Colour code:	01
Colour description:	white glossy
Material:	Ceramic
Material quality:	Finefireclay
PVD technology:	No
Surface finish effect:	glossy
Fixing method:	Fixing set
Mounting method:	Floor

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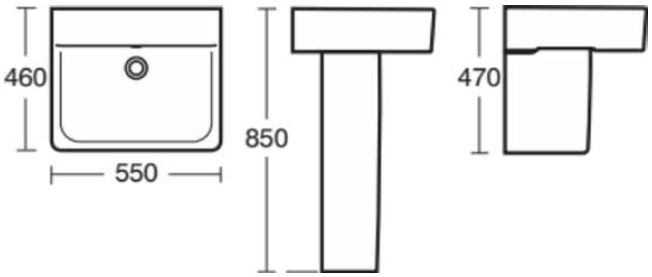
CONCEPT

E784201

CONCEPT | Basin 550x460x155 mm in white glossy finish, 1 tap hole, with overflow

Image & drawing





General information

Product type:	Washbasins
Sub product type:	Basin
Brand:	Ideal Standard
Suite name:	CONCEPT
Designer:	Studio Levien
Colour:	01 - White Glossy
Surface finish effect:	glossy
Height (mm):	155
Width (mm):	550
Length / Projection (mm):	460
Net weight (kg):	17.30
EAN code:	5017830389521

Washbasin wall mounted using E0157 wall fixing set, with semi-pedestal screwed to wall or full pedestal mounted using 2 screws through the back of the basin (not supplied). When fitted to furniture washbasin must be secured to wall with E0157 wall fixing set. Can be used with Cube basin units see furniture section for size details.

Downloads

- EPD

Product standard & certifications

Additional standards:	EN 14688
DoP classification:	CL25

Product specifications

Colour code:	01
Colour description:	white glossy
Disabled model:	No
Includes a chain eye:	No
Material:	Ceramic
Material quality:	Finefireclay
Amount of tap holes for each washbasin:	1
Amount of washbasins:	1
Overflow visible:	Yes
PVD technology:	No
Support plateau:	Backside
Surface finish effect:	glossy
Tap hole position:	Centre
Type of overflow:	Round
With back wall:	No
With drain plug:	No
With overflow:	Yes
With siphon:	No
Mounting method:	Wall

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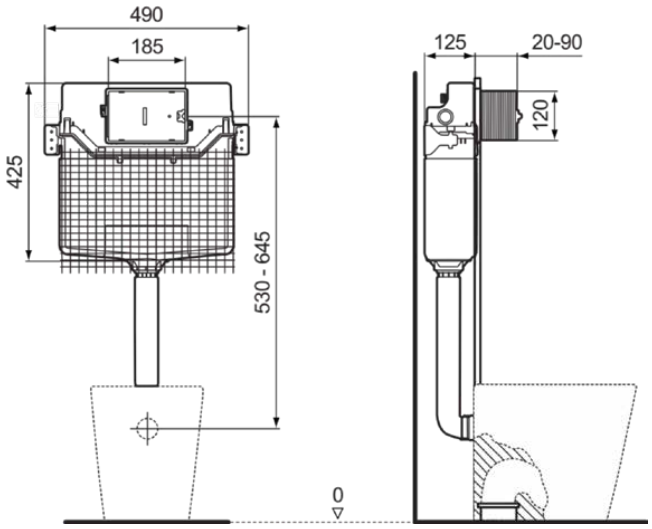
PROSYS

R031767

PROSYS | Concealed cistern 490x125x425 mm in neutral finish | WRAS

Image & drawing





General information

Product type:	Pre-wall installations
Sub product type:	Concealed cistern
Brand:	Ideal Standard
Suite name:	PROSYS
Designer:	NA
Colour:	67 - Neutral
Surface finish effect:	matt
Height (mm):	425 - 1085
Width (mm):	490
Length / Projection (mm):	125
Fixing method:	Hanger
Net weight (kg):	2.92
EAN code:	5017830550037

Suitable for use with BTW & Wall hung WC bowls at 6/4 or 4.5/3 litre dual flush. For use with Oleas and Septa Pro mechanical flushplates or Altes/Symfo or Septa Pro electronic plates with the appropriate conversion kit.

Features

WRAS

Downloads

- Installation Guide
- Spare Parts List

Product standard & certifications

Additional standards:	EN 14055
DoP classification:	CL2-NL/NPD
WRAS certificate name:	2111390

Product specifications

Adjustable flush volume:	Yes
Adjustable leg brakes:	No
Adjustable toilet height:	No
Colour code:	67
Colour description:	neutral
Easy Fix technology:	No
Flushing options:	2 volumes
Location of flush plate:	Front
Material of concealed cistern:	Plastic
Amount of water connection positions:	2
PVD technology:	No
Pre-set flush volume (l):	6
Silent filling process:	Yes
Smart Flush compatible:	Yes

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Ideal Standard

PROSYS

R031767

PROSYS | Concealed cistern 490x125x425 mm in neutral finish | WRAS

Product specifications

Smart Valve technology:	Yes
Surface finish effect:	matt
Tool-free service:	Yes
Type of actuation:	Mechanic
Vertical load capacity (kg):	400
Water saving:	Yes
With angle valve:	Yes
With anti-condensation insulation set:	Yes
With power supply unit:	No
With waste bend:	No
Detached:	No
Fixing material included:	Yes
Fixing method:	Hanger
Mounting method:	Wall

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Date created: 03/2024

Conceala Plastic Auto Cistern, 13.6 Litres & Fittings

ILLUSTRATED

S1157 Conceala auto cistern 13.6 litre with cover auto syphon and petcock

ILLUSTRATED PRODUCT DETAILS

Weights

S1157 3.00 KG

Materials

S1157 Plastic

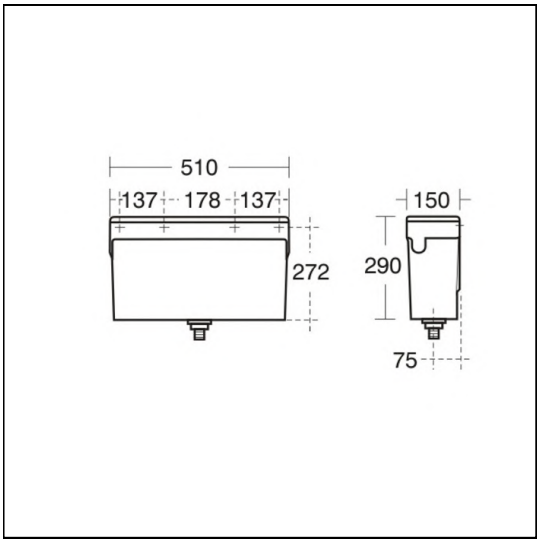
Finishes

S1157 Neutral / No Finish (67)

Capacity

S1157 13.6 litres





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Contour 21 Raised Height Close Coupled Toilet, 75cm Projection

ILLUSTRATED

S3054 Contour 21 close coupled raised height toilet bowl with horizontal outlet, 75cm projection with floor fixing kit

S3654 Contour 21 close coupled 4.5 litre delay fill single flush syphon cistern for 75cm projection bowl, bottom supply, internal overflow with spatula lever (reversible) and secure cover fastener

S4065 Contour 21 toilet seat and cover, top fixing hinges



OPTIONS

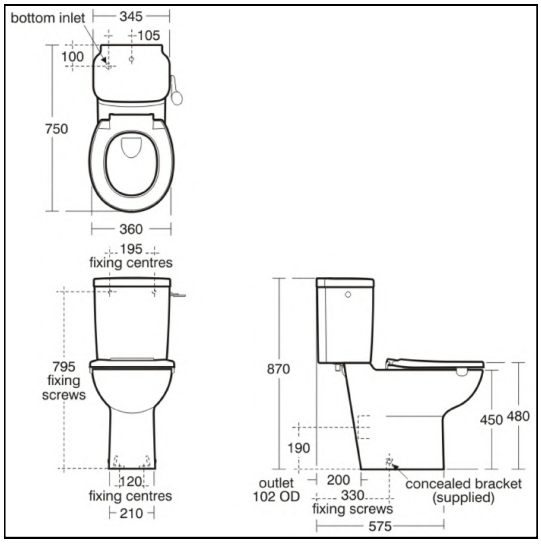
S1218 Contour 21 close coupled 4.5 litre delay fill single flush syphon cistern for 75cm projection bowl, bottom supply, internal overflow with black spatula lever (reversible) and secure cover fastener

S4066 Contour 21 toilet seat only, top fixing hinges and retaining buffers

EW078 Toilet seat buffers

S4305 Panekta outlet connector to convert horizontal outlet wcs to P trap

S4300 Panekta outlet connector to convert horizontal outlet wcs to S or turned P trap





ILLUSTRATED PRODUCT DETAILS

Weights

S3054 25.86 KG
S3654 16.70 KG
S4065 2.70 KG

Materials

S3054 Vitreous China
S3654 Vitreous China
S4065 Plastic

Finishes

S3054 White (01)

S3654 White (01)

S4065 White (01)

Capacity

S3654 4.5 litres

FINISH OPTIONS

(01) White

(36) Blue

(LJ) Grey

(RN) Charcoal

Standards

WC bowl to BS EN 997 & BS EN 33

Special Notes

WC screwed to floor using concealed brackets (supplied) and cistern screwed to wall

ACCREDITATIONS

S3654(01)

Unified Water Label 4.5 Average Flushing Volume (Litres)

S1218(01)

Unified Water Label 4.5 Litres

FEATURES

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Armitage Shanks

inta



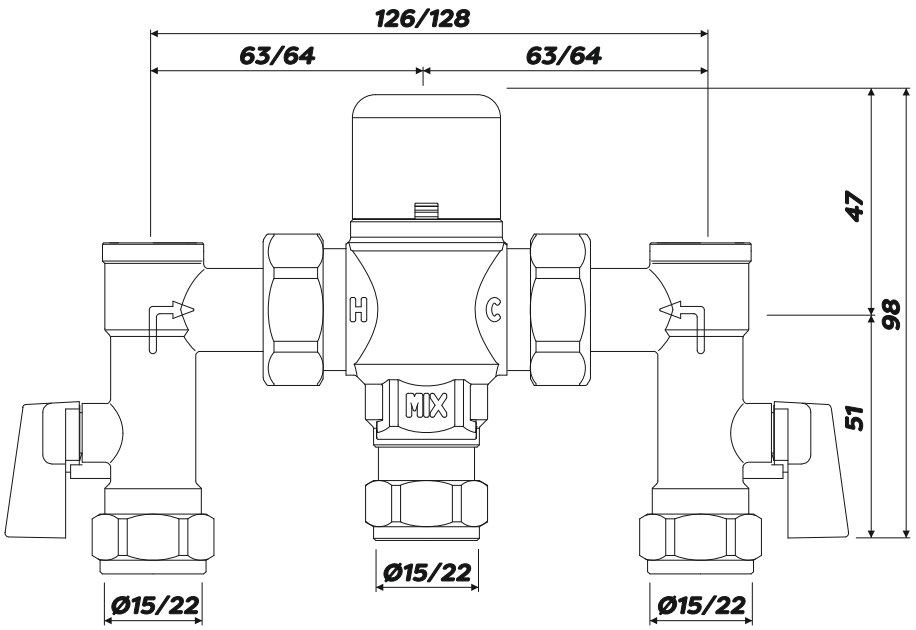
Product

400MX15CP - Intamix Thermostatic Mixing Valve 15mm with Service valves

400MX22CP - Intamix Thermostatic Mixing Valve 22mm with Service valves

Technical Specification

Max Inlet Pressure (static):	***10 Bar***
Min Inlet Pressure (dynamic):	***0.2 Bar***
Max Inlet Temperature:	***85°C***
Temperature Adjustment Range:	***30°C to 50°C***
Temperature Stability:	***+/-2°C***
Max Pressure Differential:	***5:1***
Min Temperature Differential Between Hot Inlet & Mixed Outlet to Achieve Cold Water Failsafe:	***10°C***



Additional Information

Supplied with isolating ball valves

One valve to suit all applications

One piece cartridge for ease of maintenance and replacement

High flow rates with low pressure drops

TMV3 approved & complies with HTM04-01 DO8

TMV2 approved & complies with BSEN1111 & BSEN1287:2017

Complies with building regulations Part G

WRAS approved

Integral check valves & strainers

Supplied with 2x EPDM Rubber sealing washers to ensure a water tight seal. (3/4" Washers supplied with 400MX15CP, 1" Washers supplied with 400MX22CP)

Scan for Installation & Maintenance Instructions

Intatec, Airfield Industrial Estate, Hixon, Stafford, ST18 0PF
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07/22
E&OE

VAX BIB C

X-HEAD Tap Range
Cross Head Bib Taps Chrome



Specification

Product Type:	Taps
Main Construction Material:	Brass
Mount Type:	Deck Mounted
Handle Type:	Cross Head
Connection Inlet:	½" BSP
Connection Outlet:	Open
Number of Tap Holes:	2
Valve/Cartridge Type:	Manual
Plumbing System Requirements:	All - Preferably Balanced
Working Pressure Range:	Min 0.2 bar - Max 5.0 bar
Maximum Hot Water Temperature: °C	65
Maximum Static Pressure: (bar)	10
Flow Type:	Single Flow
Isolation Included:	No

Features:

- Metal handles
- Chrome plated to BS EN 248

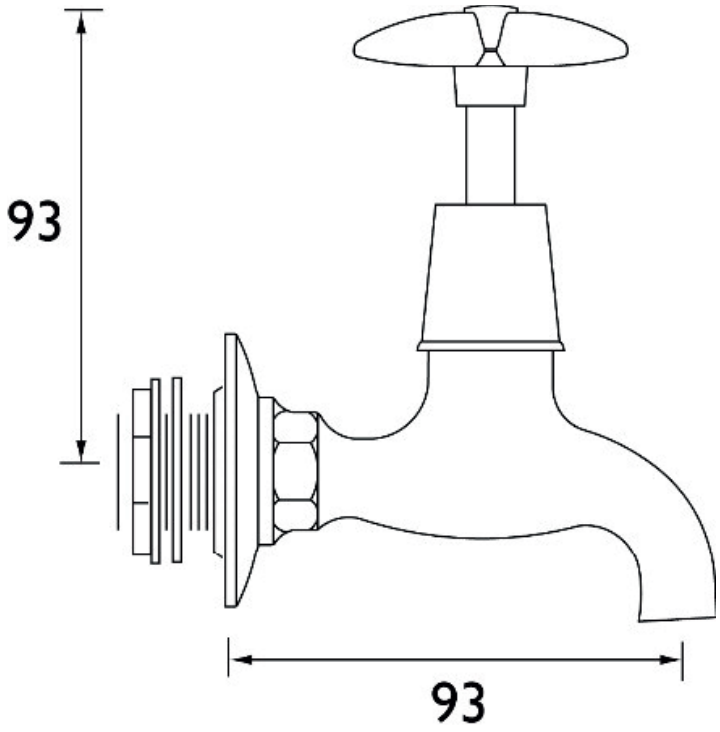
Product Certifications:

WRAS APPROVED PRODUCT

WRAS Expiry Date: 28/02/2029
WRAS Certificate Number: 240203002

40.7 L/Min

Dimensions (measurements in mm)



Flow Rates (l/min)

System Pressure (bar)	0.2	0.5	1	2	3	5
VAX BIB C	11.3	16.6	22.3	33.3	40.7	52.6

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http://www.bristan.com

TECHNICAL DATA SHEET

TOP QUALITY 5 YEAR GUARANTEED

BRISTAN TAPS & SHOWERS

D8

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The information contained on this page was correct at date of issue. Fitting Dimensions are provided as a guide only. Some variation may occur due to manufacturing tolerances. Bristan pursues a policy of continuing improvement in design and performance of its products and so reserves the right to change specifications without prior notice.