

Former Regal Cinema, 233 High Street, Uxbridge, UB8 1LD

Nimbus Engineering Consultants Ltd

Water Efficiency Calculations Report

June 2025

**WATER EFFICIENCY CALCULATION REPORT  
FOR FORMER REGAL CINEMA, 233 HIGH  
STREET, UXBRIDGE, UB8 1LD**

**DOCUMENT NUMBER: C3565-R3-REV-A**

**Prepared by:**



**Former Regal Cinema, 233 High Street, Uxbridge, UB8 1LD**

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## 1. INTRODUCTION

Nimbus Engineering Consultants Limited have been instructed to carry out Water Efficiency Calculations to support the planning application for Former Regal Cinema, 233 High Street, Uxbridge, UB8.

## 2. WATER EFFICIENCY CALCULATIONS

By following the Government's national calculation methodology for assessing water efficiency in new dwellings the proposed hotel, as designed, will achieve a water consumption of 107.7 litres per person per day.

The completed water efficiency calculations have been provided in Appendix A.

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## APPENDIX A – WATER EFFICIENCY CALCULATIONS

Installation Type	Unit of Measure	Capacity/Flow rate (1)	Use Factor (2)	Fixed use (litres/person/day) (3)	Litres/person/day = [(1)x(2)] + (3) (4)
WC (single flush)	Flush Volume (litres)		4.42	0.00	0
WC (dual flush)	Full flush Volume (litres)	6	1.46	0.00	8.76
	Part flush Volume (litres)	4	2.96	0.00	11.84
WC (multiple fittings)	Average effective flushing Volume (litres)		4.42	0.00	0
Taps (excluding kitchen/utility room taps)	Flow rate (litres/min)	6.96	1.58	1.58	12.57
Bath (where shower also present)	Capacity to overflow(litres)	4.00	0.11	0.00	0.44
Shower (where bath also present)	Flow Rate(litres / minute)	10.00	4.37	0.00	43.70
Bath Only	Capacity to overflow(litres)		0.50	0.00	0
Shower Only	Flow Rate (litres/minute)		5.60	0.00	0
Kitchen/Utility room sink taps	Flow rate (litres/minute)	8.00	0.44	10.36	13.88
Washing Machine	(Litres/kg dry load)	8.17	2.1	0.00	17.16
Dishwasher	(Litres/place setting)	1.25	3.6	0.00	4.50
Waste disposal unit	(Litres/use)	<input type="checkbox"/> Present	3.08	0.00	0
Water Softener	(Litres/person/day)		1.00	0.00	0
(5)	Total Calculated use (litres/person/day) =SUM(column 4)				112.85
(6)	Contribution from greywater (litres/person/day)				0
(7)	Contribution from rainwater (litres/person/day)				0
(8)	Normalisation factor				0.91
(9)	Total internal water consumption = [(5)-(6)-(7)]x(8) (litres/person/day)				102.69
(10)	External water use				5.0
(11)	Total water consumption (Building Regulation 17.K) =(9)+(10)(litres/person/day)				107.7

Installation Type	Make/Model (mandatory)	Litres/Person/Day
WC (dual flush)	TBC & Revised once Chosen	20.6
Taps	TBC & Revised once Chosen	12.57
Baths (shower(s) present)	TBC & Revised once Chosen	0.44
Showers (bath(s) present)	TBC & Revised once Chosen	43.70
Kitchen Taps	TBC & Revised once Chosen	13.88
Washing Machines	TBC & Revised once Chosen - Assumed Quantity	17.16
Dishwasher	TBC & Revised once Chosen - Assumed Quantity	4.50



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