

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

DOCUMENT NUMBER: C3565-R3-REV-A

Prepared by:



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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.

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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