Project Number: L230077

Project name: Free Wharf Phase 2 (Block E & F)

Dwelling Type: Block E: FT29, FT30 / Block F: FT28, FT31

Occupancy: 1B1P

Building Regulations AD G2 - A1: Water Efficiency Calculator

			(1)	(2)	(3)	(4)	
Installation Type	**Manufacturer/Model**	**Unit of Measure**	**Capacity/ Flow Rate**	**Use Factor**	**Fixed Use (litres/person/ day)**	**Litres/person/ day = [(1) x (2)] + (3)**	As per Phase 1 Affordable Specification
WC (single flush)	N/A	flush volume (litres)		4.42	0.00	0.00	
WC (dual flush)	As per Phase 1	full flush volume (litres)	6.00	1.46	0.00	8.76	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
		part flush volume (litres)	4.00	2.96	0.00	11.84	
WC (multiple fittings)	N/A	average effective flushing volume (litres)		4.42	0.00	0.00	
Taps (excluding kitchen/utility room taps)	TBC	flow rate (litres/minute)	6.00	1.58	1.58	11.06	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	TBC	capacity to overflow (litres)	145.00	0.11	0.00	15.95	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	TBC	flow rate (litres/minute)	7.00	4.37	0.00	30.59	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Bath only	N/A	capacity to overflow (litres)	0.00	0.50	0.00	0.00	
Shower only	N/A	flow rate (litres/minute)		5.60	0.00	0.00	
Kitchen/utility room sink taps	As per Phase 1	flow rate (litres/minute)	7.00	0.44	10.36	13.44	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	As per Phase 1	litres/kg dry load	6.57	2.10	0.00	13.80	Phase 1: Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	As per Phase 1	litres/place setting	1.25	3.60	0.00	4.50	
Waste disposal	N/A	litres/use	0.00	3.08	0.00	0.00	
Water softner	N/A	litres/person/day		1.00	0.00	0.00	
		(5)	**Total calculated use = (Σ column 4)**			109.94	
		(6)	Contribution from grey water (litres/person/day) from table 4.6				
		(7)	Contribution from rainwater (litres/person/day) from table 5.5				
		(8)	Normalisation factor			0.91	
		(9)	Total water consumption = [(5) - (6) - (7)] x (8)			100.04	
		(10)	External water use			5.00	
		(11)	**Total water consumption = (9) + (10) (litres/person/day)**			105.04	

Notes:
Flow restrictor applied to washbasin taps
Flow restrictor applied to showers
Flow restrictor applied to tap mixer in kitchens

Sanitary	**Flowrates**	
WC (Full flush volume)	6.00	litres
WC (Part flush volume)	4.00	litres
WHB	6.00	l/min
Bath (where shower also present)	145.00	litres
Shower (where bath also present)	7.00	l/min
Kitchen sink taps	7.00	l/min
Washing machine	6.57	l/kg
Dishwasher	1.25	litres/place setting

Source	As per Phase 1 Affordable Specification
As per phase 1	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
As per phase 1	
As per phase 1	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
As per phase 1	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
As per phase 1	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
As per phase 1	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
As per phase 1	Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Part G - Table 2.1	Maximum Fittings Consumption

Project Number: L230077

Project name: Free Wharf Phase 2 (Block E & F)

Dwelling Type: Block E: FT14, FT13, FT04
Block F: FT05, FT04

Occupancy: 1B2P

Building Regulations AD G2 - A1: Water Efficiency Calculator

			(1)	(2)	(3)	(4)	
Installation Type	**Manufacturer/Model**	**Unit of Measure**	**Capacity/ Flow Rate**	**Use Factor**	**Fixed Use (litres/person/ day)**	**Litres/person/ day = [(1) x (2)] + (3)**	As per Phase 1 Affordable Specification
WC (single flush)	N/A	flush volume (litres)		4.42	0.00	0.00	
WC (dual flush)	As per Phase 1	full flush volume (litres)	6.00	1.46	0.00	8.76	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
		part flush volume (litres)	4.00	2.96	0.00	11.84	
WC (multiple fittings)	N/A	average effective flushing volume (litres)		4.42	0.00	0.00	
Taps (excluding kitchen/utility room taps)	TBC	flow rate (litres/minute)	6.00	1.58	1.58	11.06	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	TBC	capacity to overflow (litres)	145.00	0.11	0.00	15.95	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	TBC	flow rate (litres/minute)	7.00	4.37	0.00	30.59	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Bath only	N/A	capacity to overflow (litres)	0.00	0.50	0.00	0.00	
Shower only	N/A	flow rate (litres/minute)		5.60	0.00	0.00	
Kitchen/utility room sink taps	As per Phase 1	flow rate (litres/minute)	7.00	0.44	10.36	13.44	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	As per Phase 1	litres/kg dry load	6.57	2.10	0.00	13.80	Phase 1: Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	As per Phase 1	litres/place setting	1.25	3.60	0.00	4.50	
Waste disposal	N/A	litres/use	0.00	3.08	0.00	0.00	
Water softner	N/A	litres/person/day		1.00	0.00	0.00	
		(5)	**Total calculated use = (Σ column 4)**			109.94	
		(6)	Contribution from grey water (litres/person/day) from table 4.6				
		(7)	Contribution from rainwater (litres/person/day) from table 5.5				
		(8)	Normalisation factor			0.91	
		(9)	Total water consumption = [(5) - (6) - (7)] x (8)			100.04	
		(10)	External water use			5.00	
		(11)	**Total water consumption = (9) + (10) (litres/person/day)**			105.04	

Notes:
Flow restrictor applied to washbasin taps
Flow restrictor applied to showers
Flow restrictor applied to tap mixer in kitchens

Sanitary	**Flowrates**	
WC (Full flush volume)	6.00	litres
WC (Part flush volume)	4.00	litres
WHB	6.00	l/min
Bath (where shower also present)	145.00	litres
Shower (where bath also present)	7.00	l/min
Kitchen sink taps	7.00	l/min
Washing machine	6.57	l/kg
Dishwasher	1.25	litres/place setting

Source	As per Phase 1 Affordable Specification
As per phase 1	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
As per phase 1	
As per phase 1	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
As per phase 1	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
As per phase 1	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
As per phase 1	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
As per phase 1	Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Part G - Table 2.1	Maximum Fittings Consumption

Project Number: L230077

Project name: Free Wharf Phase 2 (Blocks E & F)

Dwelling Type: Block E: FT25, FT23, FT21, FT19, FT17, FT12, FT02
Block F: FT27, FT25, FT22, FT19, FT18, FT12, FT02, FT01

Occupancy: 1B2P

Building Regulations AD G2 - A1: Water Efficiency Calculator

			(1)	(2)	(3)	(4)	
Installation Type	**Manufacturer/Model**	**Unit of Measure**	**Capacity/ Flow Rate**	**Use Factor**	**Fixed Use (litres/person/ day)**	**Litres/person/ day = [(1) x (2)] + (3)**	As per Phase 1 Affordable Specification
WC (single flush)	N/A	flush volume (litres)		4.42	0.00	0.00	
		full flush volume (litres)	6.00	1.46	0.00	8.76	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
WC (dual flush)	As per Phase 1	part flush volume (litres)	4.00	2.96	0.00	11.84	
WC (multiple fittings)	N/A	average effective flushing volume (litres)		4.42	0.00	0.00	
Taps (excluding kitchen/utility room taps)	TBC	flow rate (litres/minute)	6.00	1.58	1.58	11.06	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	TBC	capacity to overflow (litres)	145.00	0.11	0.00	15.95	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	TBC	flow rate (litres/minute)	7.00	4.37	0.00	30.59	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Bath only	N/A	capacity to overflow (litres)	0.00	0.50	0.00	0.00	
Shower only	N/A	flow rate (litres/minute)		5.60	0.00	0.00	
Kitchen/utility room sink taps	As per Phase 1	flow rate (litres/minute)	7.00	0.44	10.36	13.44	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	As per Phase 1	litres/kg dry load	6.57	2.10	0.00	13.80	Phase 1: Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	As per Phase 1	litres/place setting	1.25	3.60	0.00	4.50	
Waste disposal	N/A	litres/use	0.00	3.08	0.00	0.00	
Water softner	N/A	litres/person/day		1.00	0.00	0.00	
		(5)	**Total calculated use = (Σ column 4)**			109.94	
		(6)	Contribution from grey water (litres/person/day) from table 4.6				
		(7)	Contribution from rainwater (litres/person/day) from table 5.5				
		(8)	Normalisation factor			0.91	
		(9)	Total water consumption = [(5) - (6) - (7)] x (8)			100.04	
		(10)	External water use			5.00	
		(11)	**Total water consumption = (9) + (10) (litres/person/day)**			105.04	

Notes:
Flow restrictor applied to washbasin taps
Flow restrictor applied to showers
Flow restrictor applied to tap mixer in kitchens

Sanitary	**Flowrates**	
WC (Full flush volume)	6.00	litres
WC (Part flush volume)	4.00	litres
WHB	6.00	l/min
Bath (where shower also present)	145.00	litres
Shower (where bath also present)	7.00	l/min
Kitchen sink taps	7.00	l/min
Washing machine	6.57	l/kg
Dishwasher	1.25	litres/place setting

Source	As per Phase 1 Affordable Specification
As per phase 1	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
As per phase 1	
As per phase 1	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
As per phase 1	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
As per phase 1	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
As per phase 1	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
As per phase 1	Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Part G - Table 2.1	Maximum Fittings Consumption

Project Number: L230077

Project name: Free Wharf Phase 2 (Blocks E & F)

Dwelling Type: Block E: FT24, FT20, FT16, FT15, FT03 (En-suite). FT18
Block F: FT20, FT10, FT08, FT07, FT06, FT03 (En-suite)

Occupancy: 2B4P

Building Regulations AD G2 - A1: Water Efficiency Calculator

			(1)	(2)	(3)	(4)	
Installation Type	**Manufacturer/Model**	**Unit of Measure**	**Capacity/ Flow Rate**	**Use Factor**	**Fixed Use (litres/person/ day)**	**Litres/person/ day = [(1) x (2)] + (3)**	As per Phase 1 Affordable Specification
WC (single flush)	N/A	flush volume (litres)		4.42	0.00	0.00	
		full flush volume (litres)	6.00	1.46	0.00	8.76	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
WC (dual flush)	As per Phase 1	part flush volume (litres)	4.00	2.96	0.00	11.84	
WC (multiple fittings)	N/A	average effective flushing volume (litres)		4.42	0.00	0.00	
Taps (excluding kitchen/utility room taps)	TBC	flow rate (litres/minute)	6.00	1.58	1.58	11.06	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	TBC	capacity to overflow (litres)	145.00	0.11	0.00	15.95	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	TBC	flow rate (litres/minute)	7.00	4.37	0.00	30.59	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Bath only	N/A	capacity to overflow (litres)	0.00	0.50	0.00	0.00	
Shower only	N/A	flow rate (litres/minute)		5.60	0.00	0.00	
Kitchen/utility room sink taps	As per Phase 1	flow rate (litres/minute)	7.00	0.44	10.36	13.44	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	As per Phase 1	litres/kg dry load	6.57	2.10	0.00	13.80	Phase 1: Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	As per Phase 1	litres/place setting	1.25	3.60	0.00	4.50	
Waste disposal	N/A	litres/use	0.00	3.08	0.00	0.00	
Water softner	N/A	litres/person/day		1.00	0.00	0.00	
		(5)	**Total calculated use = (Σ column 4)**			109.94	
		(6)	Contribution from grey water (litres/person/day) from table 4.6				
		(7)	Contribution from rainwater (litres/person/day) from table 5.5				
		(8)	Normalisation factor			0.91	
		(9)	Total water consumption = [(5) - (6) - (7)] x (8)			100.04	
		(10)	External water use			5.00	
		(11)	**Total water consumption = (9) + (10) (litres/person/day)**			105.04	

Notes:
Flow restrictor applied to washbasin taps
Flow restrictor applied to showers
Flow restrictor applied to tap mixer in kitchens

Sanitary	**Flowrates**	
WC (Full flush volume)	6.00	litres
WC (Part flush volume)	4.00	litres
WHB	6.00	l/min
Bath (where shower also present)	145.00	litres
Shower (where bath also present)	7.00	l/min
Kitchen sink taps	7.00	l/min
Washing machine	6.57	l/kg
Dishwasher	1.25	litres/place setting

Source	As per Phase 1 Affordable Specification
As per phase 1	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
As per phase 1	
As per phase 1	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
As per phase 1	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
As per phase 1	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
As per phase 1	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
As per phase 1	Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Part G - Table 2.1	Maximum Fittings Consumption

Project Number: L230077

Project name: Free Wharf Phase 2 (Blocks F)

Dwelling Type: Block F: FT26, FT11, FT09 Occupancy: 2B4P

Building Regulations AD G2 - A1: Water Efficiency Calculator

			(1)	(2)	(3)	(4)	
Installation Type	**Manufacturer/Model**	**Unit of Measure**	**Capacity/ Flow Rate**	**Use Factor**	**Fixed Use (litres/person/ day)**	**Litres/person/ day = [(1) x (2)] + (3)**	As per Phase 1 Affordable Specification
WC (single flush)	N/A	flush volume (litres)		4.42	0.00	0.00	
WC (dual flush)	As per Phase 1	full flush volume (litres)	6.00	1.46	0.00	8.76	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
		part flush volume (litres)	4.00	2.96	0.00	11.84	
WC (multiple fittings)	N/A	average effective flushing volume (litres)		4.42	0.00	0.00	
Taps (excluding kitchen/utility room taps)	TBC	flow rate (litres/minute)	6.00	1.58	1.58	11.06	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	TBC	capacity to overflow (litres)	145.00	0.11	0.00	15.95	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	TBC	flow rate (litres/minute)	7.00	4.37	0.00	30.59	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Bath only	N/A	capacity to overflow (litres)	0.00	0.50	0.00	0.00	
Shower only	N/A	flow rate (litres/minute)		5.60	0.00	0.00	
Kitchen/utility room sink taps	As per Phase 1	flow rate (litres/minute)	7.00	0.44	10.36	13.44	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	As per Phase 1	litres/kg dry load	6.57	2.10	0.00	13.80	Phase 1: Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	As per Phase 1	litres/place setting	1.25	3.60	0.00	4.50	
Waste disposal	N/A	litres/use	0.00	3.08	0.00	0.00	
Water softner	N/A	litres/person/day		1.00	0.00	0.00	
		(5)	**Total calculated use = (Σ column 4)**			109.94	
		(6)	Contribution from grey water (litres/person/day) from table 4.6				
		(7)	Contribution from rainwater (litres/person/day) from table 5.5				
		(8)	Normalisation factor			0.91	
		(9)	Total water consumption = [(5) - (6) - (7)] x (8)			100.04	
		(10)	External water use			5.00	
		(11)	**Total water consumption = (9) + (10) (litres/person/day)**			105.04	

Notes:
Flow restrictor applied to washbasin taps
Flow restrictor applied to showers
Flow restrictor applied to tap mixer in kitchens

Sanitary	**Flowrates**		**Source**	As per Phase 1 Affordable Specification
WC (Full flush volume)	6.00	litres	As per phase 1	Ideal Standard Sandringham E896301 + E896701 + E131601 - 6/4dual flush
WC (Part flush volume)	4.00	litres	As per phase 1	
WHB	6.00	l/min	As per phase 1	Ideal Standard Tempo B0728 - flow restricted to max 6(l)/min
Bath (where shower also present)	145.00	litres	As per phase 1	Ideal Standard Sandringham 170x70cm S183701 - 145(l) to overflow
Shower (where bath also present)	7.00	l/min	As per phase 1	Ideal Standard A7206AA + Ideal Standard B9410AA - flow restricted to max 7(l)/min
Kitchen sink taps	7.00	l/min	As per phase 1	Lamona Alvo tap (mixer) - flow restricted to max 7(l)/min
Washing machine	6.57	l/kg	As per phase 1	Beko Freestanding 7kg / 5kg 1200RPM Washer Dryer (consumption 34/7 = 6.57(l)/kg))
Dishwasher	1.25	litres/place setting	Part G - Table 2.1	Maximum Fittings Consumption