PRE-IMPROVEMENT

Code	Location	Total Floor area (m2)	Age (yrs)	Main Heating fuel	Heating type	Heating category	Location used for	U-values (W/m2K) Wall	Roof	Floor	Glazing	Inf. rate AC/h	Predicted energy consumption (kWh/yr) App.	Refrig.	Lighting	Space heatin	Hot water	TOTAL	kWh/m2
AP 31	South West	31.7	25	LPG Gas	Bottles 47kg	Bottled LPG	Cardiff	1.138	1	0.832	3.925	0.78	1311	328	524	5327	1607	9097	287.4
AP 32	South West	59.9	6	LPG Gas	Tank	Bulk LPG	Cardiff	0.624	0.4	0.421	2.75	0.56	1059	328	938	4567	1395	8287	138.4
AP33	South West	60.3	32	LPG Gas	Bottles 47kg	Bottled LPG	Cardiff	1.274	0.8	0.784	2.75	0.74	1163	681	922	9811	1713	#####	236.8
AP 34	South West	48.1	36	LPG Gas	Bottles 47kg	Bottled LPG	Cardiff	1.151	0.4	0.761	3.37	0.62	1731	681	834	5051	1677	9974	207.4
AP 35	South West	40.7	21	LPG Gas	Tank	Bulk LPG	Cardiff	0.882	0.5	0.624	3.93	0.68	981	328	609	6725	2642	#####	277.2
AP 36	South West	70.0	21	LPG Gas	Tank	Bulk LPG	Cardiff	0.779	0.3	0.832	2.75	0.58	1455	328	992	6793	3273	#####	183.4
AP 37	South West	80.2	30	LPG Gas	Bottles 47kg	Bottled LPG	Cardiff	1.391	0.8	1.212	3.1	0.59	1992	460	1146	12381	3911	#####	248.1
AP 38	South West	34.5	19	LPG Gas	Bottles 47kg	Bottled LPG	Cardiff	0.702	0.6	0.535	5.1	0.47	1294	328	539	4102	1460	7724	223.7
AP 39	South West	47.1	26	Electric	Storage rads	Electric storage	Cardiff	0.703	0.5	0.594	2.75	0.68	1282	681	753	4038	1113	7867	167.1
AP 40	South West	63.1	22	Gas	Mains	Mains gas	Cardiff	0.699	0.5	0.322	2.75	0.60	2172	328	948	4567	1896	9912	157.1

Code	Pre: Predicted CO2 emissions (tCO2/yr) App.	Refrig.	Lighting	Space heating	Hot water	TOTAL	kgCO2/m2	Predicted fuel bill (£/yr)	£/m2	Space Heating kWh/m2	POST-IMPROVEMENT U-values (W/m2K) Wall	Roof	Floor	Glazing	Inf. rate AC/h
AP 31	0.6	0.2	0.3	1.4	0.4	2.8	89.9	829.44	26.21	168.3	0.351	0.962	0.454	3.93	0.52
AP 32	0.5	0.2	0.5	1.1	0.3	2.6	43.4	594.24	9.93	76.3	0.204	0.291	0.35	2.75	0.31
AP33	0.5	0.4	0.5	2.4	0.4	4.2	69.4	1270.47	21.06	162.6	0.329	0.763	0.246	2.75	0.56
AP 34	0.7	0.4	0.4	1.2	0.4	3.1	65.0	909.61	18.92	105.1	0.322	0.302	0.325	3.371	0.42
AP 35	0.4	0.2	0.3	1.8	0.6	3.4	82.4	770.51	18.93	165.2	0.311	0.513	0.362	3.93	0.47
AP 36	0.5	0.2	0.5	1.7	0.8	3.7	52.8	851.60	12.17	97.0	0.294	0.212	0.319	2.75	0.36
AP 37	0.8	0.2	0.6	3.4	1.0	6.0	74.7	1786.71	22.29	154.4	0.301	0.233	0.388	3.1	0.38
AP 38	0.6	0.2	0.3	1.0	0.4	2.4	68.4	697.84	20.21	118.8	0.255	0.307	0.333	5.1	0.29
AP 39	0.6	0.4	0.4	2.1	0.6	4.0	84.5	693.60	14.74	85.8	0.373	0.276	0.34	2.75	0.41
AP 40	0.9	0.2	0.5	0.9	0.4	2.8	44.8	532.60	8.44	72.4	0.228	0.207	0.222	2.75	0.39

Code	Post: Predicted energy consumption (kWh/yr) App.	Refrig.	Lighting	Space heating	Hot water	TOTAL	kWh/m2	Predicted CO2 emissions (tCO2/yr) App.	Refrig.	Lighting	Space heating	Hot water	TOTAL	kgCO2/m2	code	Predicted fuel bill (£/yr)	£/m2	Space Heating kWh/m2
AP 31	1292	328	524	3273	1607	7024.06	221.9	0.6	0.2	0.3	0.9	0.4	2.277	71.9	AP 31	649.50	20.52	103.42
AP 32	1039	328	938	2429	1395	6129.02	102.4	0.5	0.2	0.5	0.6	0.3	2.064	34.5	AP 32	469.40	7.84	40.57
AP33	1131	681	922	5706	1713	10152.4	168.3	0.5	0.4	0.5	1.4	0.4	3.166	52.5	AP33	924.40	15.32	94.58
AP 34	1706	681	834	2439	1677	7337.17	152.6	0.7	0.4	0.4	0.6	0.4	2.470	51.4	AP 34	688.90	14.33	50.74
AP 35	963	328	609	4419	2642	8961.52	220.1	0.4	0.2	0.3	1.2	0.6	2.717	66.7	AP 35	623.10	15.31	108.55
AP 36	1428	328	992	3408	3273	9428.85	134.7	0.5	0.2	0.5	0.8	0.8	2.854	40.8	AP 36	654.58	9.35	48.69
AP 37	1927	460	1146	4162	3911	11605.6	144.8	0.8	0.2	0.6	1.1	1.0	3.719	46.4	AP 37	1068.20	13.33	51.92
AP 38	1276	328	539	2155	1460	5758.46	166.8	0.5	0.2	0.3	0.5	0.4	1.875	54.3	AP 38	533.40	15.45	62.42
AP 39	1260	681	753	2217	1113	6023.72	128.0	0.6	0.4	0.4	1.1	0.6	3.026	64.3	AP 39	569.10	12.09	47.11
AP 40	2150	328	948	2195	1896	7517.5	119.2	0.9	0.2	0.5	0.4	0.4	2.343	37.1	AP 40	456.50	7.24	34.80

RELATIVE SAVINGS

Code	Pre v Post Predicted energy consumption (kWh/yr) App.	Refrig.	Lighting	Space heating	Hot water	TOTAL SAVING kWh Year	Total Saving kWh/m2	Pre v Post Predicted CO2 emissions (tCO2/yr) App.	Refrig.	Lighting	Space heating	Hot water	TOTAL	CO2 % saving	kgCO2/m2	Predicted fuel bill (£/yr)	£/m2	Space Heating kWh/m2	% saving space heating
AP 31	20	0	0	2053	0	2073	65.5	0.0	0.0	0.0	0.6	0.0	0.6	20	18.0	179.94	5.69	64.9	39
AP 32	20	0	0	2138	0	2158	36.1	0.0	0.0	0.0	0.5	0.0	0.5	21	8.9	124.84	2.09	35.7	47
AP33	33	0	0	4104	0	4137	68.6	0.0	0.0	0.0	1.0	0.0	1.0	24	16.9	346.07	5.74	68.0	42
AP 34	25	0	0	2612	0	2637	54.8	0.0	0.0	0.0	0.6	0.0	0.7	21	13.6	220.71	4.59	54.3	52
AP 35	18	0	0	2305	0	2324	57.1	0.0	0.0	0.0	0.6	0.0	0.6	19	15.6	147.41	3.62	56.6	34
AP 36	27	0	0	3385	0	3412	48.7	0.0	0.0	0.0	0.8	0.0	0.8	23	12.0	197.03	2.81	48.4	50
AP 37	65	0	0	8219	0	8284	103.3	0.0	0.0	0.0	2.2	0.0	2.3	38	28.3	718.51	8.96	102.5	66
AP 38	18	0	0	1947	0	1965	56.9	0.0	0.0	0.0	0.5	0.0	0.5	21	14.1	164.44	4.76	56.4	47
AP 39	22	0	0	1821	0	1843	39.2	0.0	0.0	0.0	0.9	0.0	1.0	24	20.2	124.50	2.65	38.7	45
AP 40	22	0	0	2372	0	2395	38.0	0.0	0.0	0.0	0.5	0.0	0.5	17	7.6	76.10	1.21	37.6	52

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