



AP 1 - 100 Pre-Improvement Assessment Data Table

Alba Building Sciences Ltd

Code	Appt	North	Location	Total Floor area (m²)	Site (1st ALBA Ag. (m²))	Glazing Type	Roof Type	Main Heating Fuel	Heating Type	Heating Location	Location used for model	*Pre-Improvement Testing / Measurement Data										Predicted			Space Heating	kW/2m²	Predicted CO2 emissions (kgCO2/yr)	TOTAL (kgCO2/yr)								
												U-values (W/m2K)					Predicted energy consumption (kWh/yr)					kWh														
												Wall	Roof	Floor	Glazing	Inf. via AGH	Appliances	Lighting	Space Heating	Hot water	TOTAL	Appliances	Lighting	Space Heating					Hot water	Appliances	Lighting	Space Heating	Hot water			
AP1	North	78.0	25.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.56	0.78	0.86	2.31	0.54	2118	336	726	878	1798	274.6	0.7	0.2	0.4	1.1	0.2	0.1	90.0	96.0	143.8	AP1				
AP2	North	80.0	33.20	10	10	Double	EPG	Task	Boiler	Boiler	Boiler	0.69	0.62	0.56	2.25	0.42	1589	460	376	6378	1585	195.7	0.7	0.2	0.2	1.5	0.4	0.0	69.4	62.0	106.5	AP2				
AP3	North	78.0	48.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.75	0.58	0.504	2.75	0.48	2758	460	1063	8586	3288	16185	207.5	1.2	0.2	0.6	2.1	1.3	5.4	69.0	1226.20	15.71	101.1	AP3		
AP4	North	61.0	36.20	10	10	Double	EPG	Task	Boiler	Boiler	Boiler	0.69	0.494	0.493	2.75	0.51	1837	338	308	2790	2342	12905	205.6	0.7	0.2	0.5	2.0	0.9	4.9	69.7	967.9	10.88	113.6	AP4		
AP5	North	71.0	28.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.63	0.45	0.512	2.75	0.60	1502	460	1054	8259	2983	12434	170.3	0.7	0.2	0.6	1.6	1.1	4.1	56.7	1160.70	15.00	89.1	AP5		
AP6	North	64.0	40.20	12	12	Double	EPG	Task	Boiler	Boiler	Boiler	0.741	0.575	0.518	2.75	0.62	2309	338	925	7516	2182	13260	207.2	1.0	0.2	0.5	1.8	0.5	4.0	67.2	926.80	16.39	117.4	AP6		
AP7	North	69.0	49.20	19	19	Double	CPG	Task	Boiler	Boiler	Boiler	0.726	0.626	0.668	2.75	0.19	1474	338	724	8927	3508	12961	264.5	0.6	0.2	0.4	2.1	1.4	4.7	94.9	884.50	13.97	141.4	AP7		
AP8	North	66.0	36.20	8	8	Double	EPG	Task	Boiler	Boiler	Boiler	0.63	0.658	0.441	2.75	0.86	1815	461	261	6792	2151	12380	192.8	0.4	0.5	0.9	0.5	0.1	6.1	68.7	1150.00	27.27	113.3	AP8		
AP9	North	61.0	49.20	9	9	Double	EPG	Task	Boiler	Boiler	Boiler	0.644	0.522	0.466	2.75	0.35	2331	460	1247	9372	2151	15551	254.9	1.0	0.2	0.6	2.5	0.5	5.0	81.3	1133.40	18.58	153.6	AP9		
AP10	North	61.0	36.20	2	2	Double	EPG	Task	Boiler	Boiler	Boiler	0.672	0.482	0.42	2.75	0.14	2036	460	678	4669	1465	9368	193.9	1.0	0.2	0.4	1.3	0.4	3.2	66.9	882.50	18.39	97.3	AP10		
AP11	West	59.0	32.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.623	0.522	0.573	2.75	0.44	1791	338	917	4820	1386	9234	486.24	156.3	0.9	0.2	0.5	1.0	0.3	2.7	46.1	520.40	8.82	81.4	AP11	
AP12	West	51.0	17.20	21	21	Double	EPG	Task	Boiler	Boiler	Boiler	0.602	0.466	0.582	2.75	0.20	1707	338	320	4162	2644	9603	3034.84	220.3	0.8	0.2	0.3	0.8	0.5	2.6	75.6	495.80	14.17	118.3	AP12	
AP13	West	66.0	38.20	18	18	Double	EPG	Task	Boiler	Boiler	Boiler	0.704	0.504	0.493	2.75	0.62	2345	338	1051	5887	1617	11196	4584.4	169.6	1.1	0.2	0.5	1.4	0.3	3.5	53.3	687.40	10.42	89.2	AP13	
AP14	West	67.0	42.12	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	0.82	0.525	0.593	2.75	0.19	3184	338	962	4397	1307	11977	5215	172.8	1.5	0.2	0.9	0.6	3.6	54.3	705.90	10.48	85.6	AP14		
AP15	West	60.0	33.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.724	0.476	0.498	2.75	0.86	1559	338	714	5926	3046	10944	4195	225.9	0.5	0.2	0.4	1.1	0.6	2.8	58.4	502.80	10.38	117.2	AP15	
AP16	West	61.0	49.20	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	0.788	0.497	0.581	2.75	0.35	1371	338	461	5821	1176	11187	8497.9	338.4	0.8	0.2	0.2	1.2	0.6	3.0	89.7	927.10	15.07	176.4	AP16	
AP17	West	60.0	36.20	17	17	Double	EPG	Task	Boiler	Boiler	Boiler	0.772	0.468	0.522	2.75	0.14	1056	460	874	5827	2444	10461	3027	182.7	0.5	0.2	0.5	1.2	0.5	2.9	49.6	526.70	9.08	100.6	AP17	
AP18	West	55.0	32.20	20	20	Double	EPG	Task	Boiler	Boiler	Boiler	0.761	0.493	0.564	2.75	0.38	2263	338	830	3860	1982	9243	6937.8	168.4	1.0	0.2	0.4	0.9	0.8	2.8	51.5	548.90	9.94	70.2	AP18	
AP19	West	71.0	32.20	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	0.614	0.452	0.592	2.75	0.60	2289	338	1161	4972	1775	11048	2745	155.4	1.2	0.2	0.6	1.0	0.4	3.3	46.8	430.00	9.38	70.1	AP19	
AP20	West	60.0	49.20	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	0.871	0.465	0.492	2.75	0.56	2691	338	1110	7316	2184	13650	4293.2	184.5	1.2	0.2	0.6	1.7	0.4	4.0	54.6	773.10	10.45	99.3	AP20	
AP21	West	36.0	42.10	10	10	Single	EPG	Task	Boiler	Boiler	Boiler	0.962	0.533	1.026	2.75	0.1	458	1515	338	500	4676	1254	8313	428.84	228.5	0.7	0.2	0.3	1.1	0.4	2.6	70.8	759.70	20.76	127.7	AP21
AP22	West	35.0	44.10	6	6	Double	EPG	Task	Boiler	Boiler	Boiler	0.662	0.443	0.475	2.75	0.66	1925	338	487	3956	1972	8772	12468	247.8	0.9	0.2	0.3	1.1	0.5	2.9	82.4	816.90	23.15	113.2	AP22	
AP23	West	37.0	42.12	6	6	Double	EPG	Task	Boiler	Boiler	Boiler	1.25	0.478	0.511	2.75	0.67	815	1328	461	5598	1195	8417	7923.1	227.4	0.4	0.2	0.2	1.4	0.3	2.5	5.1	409.60	11.45	94.6	AP23	
AP24	West	31.4	43.10	40	40	Double	EPG	Task	Boiler	Boiler	Boiler	1.122	0.494	0.36	2.75	0.44	1477	338	439	5681	2041	9568	18927.1	217.5	0.6	0.2	0.2	1.5	0.5	3.0	96.3	897.95	28.60	181.0	AP24	
AP25	West	32.5	36.20	29	29	Double	EPG	Task	Boiler	Boiler	Boiler	0.912	0.425	0.586	2.75	0.62	1175	338	950	6801	1201	10517	4194.2	162.5	0.6	0.2	0.5	1.4	0.3	4.7	88.2	462.00	10.41	104.1	AP25	
AP26	West	67.0	24.18	26	26	Double	CPG	Task	Boiler	Boiler	Boiler	0.936	0.272	0.383	2.75	0.74	1084	461	497	3961	3710	10334	10291	234.8	0.7	0.2	0.4	1.1	0.4	10.7	76.8	1271.60	22.60	194.4	AP26	
AP27	West	60.0	36.20	10	10	Double	CPG	Task	Boiler	Boiler	Boiler	1.446	0.441	1.002	2.75	0.59	1476	338	67	4813	2288	11939	9124	316.9	0.2	0.2	0.4	1.1	0.4	6.2	98.2	602.25	10.31	194.1	AP27	
AP28	West	60.4	36.20	20	20	Double	CPG	Task	Boiler	Boiler	Boiler	1.204	0.866	1.003	2.75	0.62	1328	338	955	7547	2149	12307	4830.6	203.7	0.6	0.2	0.5	2.3	0.6	6.1	74.8	746.14	16.74	124.9	AP28	
AP29	West	46.4	44.12	5	5	Double	EPG	Task	Boiler	Boiler	Boiler	0.688	0.798	0.348	2.75	0.77	2373	338	619	5104	1935	10358	7636.4	224.1	1.0	0.2	0.4	0.5	0.4	3.4	63.5	927.95	20.81	110.4	AP29	
AP30	West	50.0	38.20	6	6	Double	EPG	Task	Boiler	Boiler	Boiler	1.1	0.518	0.51	2.75	0.61	1311	338	661	5673	1984	10412	4803.9	230.5	0.5	0.2	0.5	1.8	0.6	5.9	43.3	587.50	14.58	126.4	AP30	
AP31	South West	31.7	32.10	25	25	Double	EPG	Task	Boiler	Boiler	Boiler	1.118	0.662	0.832	3.925	0.71	1311	338	324	5272	1607	9097	2037.2	287.4	0.6	0.2	0.3	1.4	0.4	2.8	89.9	829.44	26.21	168.1	AP31	
AP32	South West	39.8	38.18	6	6	Double	EPG	Task	Boiler	Boiler	Boiler	0.624	0.437	0.421	2.75	0.56	1059	338	938	4567	1395	8287	4835.9	138.4	0.5	0.2	0.5	1.1	0.3	2.6	43.4	594.24	9.81	76.3	AP32	
AP33	South West	60.3	30.20	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	1.274	0.263	0.784	2.75	0.74	1163	461	922	9131	2713	12429	4879	236.8	0.5	0.4	0.5	2.4	0.4	6.2	69.4	1270.47	21.08	162.6	AP33	
AP34	South West	40.8	29.20	22	22	Double	EPG	Task	Boiler	Boiler	Boiler	1.11	0.432	0.378	2.75	0.67	1411	338	481	5289	1632	10294	4345	172	0.5	0.2	0.4	1.1	0.4	11.7	49.3	641.00	10.85	105.6	AP34	
AP35	South West	60.7	49.10	21	21	Double	EPG																													