

Site	Victoria Ave, Blackley, MANCHESTER	Assessor	Paul Goddard
Client	John Southworth Builders	Accreditation	EES/05113
Date	08/02/2023	Tel	01925 733942
Ref	AG-76528-As-Built-Rev A	Web	www.andersongoddard.com
Drawing ref	18025 01 AC rev Y	email	Info@andersongoddard.com

Thermal Values				Thermal Mass	Kappa
Ground Floor	150mm PIR λ 0.022	0.11 W/m ² K	Suspended		75
Main wall	100mm Brick, 50mm TF200 Thermo, 9mm OSB, 140mm Insulation λ 0.035, 25mm service void, VC foil Ultra, Plaster board	0.20 W/m ² K	Timber frame		9
Party walls	Filled and sealed cavity	0.00 W/m ² K	Block		20
Roof Cold (PIJ)	500mm mineral wool λ 0.044, 100 between 400 above Joists	0.09 W/m ² K	Timber, plaster board		9
Windows	Double glazed Hard coat g-Value 0.63	1.40 W/m ² K			
Doors		1.20 W/m ² K			

Heating, Ventilation, LZC etc.		Comments
Heating	Vaillant ecoFIT sustain 830	%
Emitter	Radiators	
Controls	Programmer, Room thermostats and TRV's	
Compensator	Delayed Start thermostat	
Domestic Hot Water (DHW)	From Main System	
Showers	< 8 Litres /min	
Ventilation	Part F, System 3, decentralised Mechanical Extract Ventilation (dMEV)	
Secondary heating	None	
Photovoltaic	None	
Appendix G (FGHRS / WWHRS)	None	
Appendix Q (other Tech)	None	
Overheating	Assumed, Windows can be fully opened and cross Ventilation is possible in all other cases a minimum ACR of 4	

Property details					AD.L1a 2013 Criterion 1 & CfSH input data										Block Compliance				M & E		Low or Zero Carbon Technologies (LZC)								
Plot N°	House Type	Front Orient	Side	Det	GIFA	DER	TER	DER / TER %	DER <= TER	DFEE	TFEE	DFEE / TFEE %	DFEE <= TFEE	SAP Rating	Band	DER x TFA	TER x TFA	DFEE x TFA	TFEE x TFA	Heating	Ventilation	Orientation	Roof Angle	Min PV Kw Peak	No Panels	Panel size watts	* ASR	Actual PV Peak	* Yield PA
1	35A-1	North		Det	85.18	18.64	19.46	4.21%	PASS	50.62	59.08	14.31%	PASS	83	B	1587.76	1657.60	4311.81	5032.43	Vaillant	Combi	-	-	-	-	-	-	-	
2	35A-1	West		Det	85.18	18.51	19.91	7.03%	PASS	51.58	61.78	16.51%	PASS	83	B	1576.68	1695.93	4393.58	5262.42	Vaillant	Combi	-	-	-	-	-	-	-	
3	24A-1	West	North	End	69.46	17.86	19.74	9.52%	PASS	46.37	56.65	18.14%	PASS	83	B	1240.56	1371.14	3220.86	3934.91	Vaillant	Combi	-	-	-	-	-	-	-	
4	24A-1	West		Mid	69.46	16.30	18.28	10.83%	PASS	39.91	48.88	18.35%	PASS	84	B	1132.20	1269.73	2772.15	3395.20	Vaillant	Combi	-	-	-	-	-	-	-	
5	24A-1	West	South	End	69.46	17.74	19.60	9.48%	PASS	45.97	55.96	17.85%	PASS	83	B	1232.22	1361.42	3193.08	3886.98	Vaillant	Combi	-	-	-	-	-	-	-	
6	35A-1	East	South	Semi	86.58	16.58	18.47	10.23%	PASS	44.10	54.61	19.24%	PASS	84	B	1435.50	1599.13	3818.18	4728.13	Vaillant	Combi	-	-	-	-	-	-	-	
7	35A-1	East	North	Semi	86.58	16.68	18.59	10.27%	PASS	44.53	55.19	19.31%	PASS	84	B	1444.15	1609.52	3855.41	4778.35	Vaillant	Combi	-	-	-	-	-	-	-	
8	35A-1	North		Det	85.18	17.67	19.46	9.19%	PASS	48.11	59.08	18.56%	PASS	83	B	1505.13	1657.60	4098.01	5032.43	Vaillant	Combi	-	-	-	-	-	-	-	
9	24A-1	North	East	Semi	69.46	17.80	19.27	7.62%	PASS	45.65	53.75	15.06%	PASS	83	B	1236.39	1338.49	3170.85	3733.48	Vaillant	Combi	-	-	-	-	-	-	-	
10	24A-1	North	West	Semi	69.46	18.44	19.27	4.30%	PASS	46.79	53.75	12.94%	PASS	83	B	1280.84	1338.49	3250.03	3733.48	Vaillant	Combi	-	-	-	-	-	-	-	
11	35C	West	North	Det	93.56	19.46	20.48	4.98%	PASS	55.44	67.19	17.48%	PASS	82	B	1820.68	1916.11	5186.97	6286.30	Vaillant	Combi	-	-	-	-	-	-	-	
12	35C	West	South	Det	93.56	18.14	18.87	3.86%	PASS	50.53	59.04	14.41%	PASS	83	B	1697.18	1765.48	4727.59	5523.78	Vaillant	Combi	-	-	-	-	-	-	-	
13	35A-1	West	North	Semi	86.58	17.06	18.59	8.23%	PASS	46.03	55.19	16.59%	PASS	84	B	1477.05	1609.52	3985.28	4778.35	Vaillant	Combi	-	-	-	-	-	-	-	
14	35A-1	West	South	Semi	86.58	17.00	18.55	8.35%	PASS	45.33	54.56	16.91%	PASS	84	B	1471.86	1606.06	3924.67	4723.80	Vaillant	Combi	-	-	-	-	-	-	-	
15	24A-1	NW	NE	Semi	69.46	18.00	19.50	7.69%	PASS	46.76	55.23	15.33%	PASS	83	B	1250.28	1354.47	3247.95	3836.28	Vaillant	Combi	-	-	-	-	-	-	-	
16	24A-1	NW	SW	Semi	69.46	17.92	19.41	7.67%	PASS	46.45	54.75	15.15%	PASS	83	B	1244.72	1348.22	3226.42	3802.94	Vaillant	Combi	-	-	-	-	-	-	-	
17	35A-1	NW		Det	85.18	18.77	19.67	4.57%	PASS	51.36	60.38	14.93%	PASS	83	B	1598.83	1675.49	4374.84	5143.17	Vaillant	Combi	-	-	-	-	-	-	-	
18	24A-1	NW	NE	Semi	69.46	18.00	19.50	7.69%	PASS	46.76	55.23	15.33%	PASS	83	B	1250.28	1354.47	3247.95	3836.28	Vaillant	Combi	-	-	-	-	-	-	-	
19	24A-1	NW	SW	Semi	69.46	17.92	19.41	7.67%	PASS	46.45	54.75	15.15%	PASS	83	B	1244.72	1348.22	3226.42	3802.94	Vaillant	Combi	-	-	-	-	-	-	-	
20	24A-1	NW	NE	Semi	69.46	18.00	19.50	7.69%	PASS	46.76	55.23	15.33%	PASS	83	B	1250.28	1354.47	3247.95	3836.28	Vaillant	Combi	-	-	-	-	-	-	-	
21	24A-1	NW	SW	Semi	69.46	17.92	19.41	7.67%	PASS	46.45	54.75	15.15%	PASS	83	B	1244.72	1348.22	3226.42	3802.94	Vaillant	Combi	-	-	-	-	-	-	-	
22	35A-1	East		Det	85.18	18.36	19.80	7.27%	PASS	51.00	61.18	16.63%	PASS	83	B	1563.90	1686.56	4344.18	5211.31	Vaillant	Combi	-	-	-	-	-	-	-	
23	35A-1	North		Det	85.18	18.06	19.46	7.19%	PASS	49.41	59.08	16.36%	PASS	83	B	1538.35	1657.60	4208.74	5032.43	Vaillant	Combi	-	-	-	-	-	-	-	
24	24A-1	North	East	Semi	69.46	17.80	19.27	7.62%	PASS	45.65	53.75	15.06%	PASS	83	B	1236.39	1338.49	3170.85	3733.48	Vaillant	Combi	-	-	-	-	-	-	-	

25	24A-1	North	West	Semi	69.46	17.80	19.27	7.62%	PASS	45.65	53.75	15.06%	PASS	83	B	1236.39	1338.49	3170.85	3733.48	Vaillant	Combi	-	-	-	-	-	-	-	-
Average Improvement					1947.50	17.87	19.31	7.45%	PASS	47.55	56.79	16.27%	PASS			34797.06	37600.95	92601.03	110601.55			-	-	-	-	-	-	-	-
Rev	Date		Description																										