

Site Newbiggin Hall, NEWCASTLE UPON TYNE
 Client Engie
 Date 20/09/2023
 Ref AG-75355-Design-L21-Rev A
 Drawing ref RES869-BHA-ST-XX-DR-A-1200

Assessor
 Accreditation
 Tel
 Web
 email

Thermal Values			Thermal Mass	Kappa
Ground Floor	130mm Kingspan TF70 or similar λ 0.022	0.13 W/m ² K	Suspended	75
Main wall	100mm Brick, 150mm Dritherm 32 λ 0.032, 100mm Block λ 0.42, Plaster board on dabs	0.18 W/m ² K	ACC Block	60
Party walls	Filled and sealed cavity	0.00 W/m ² K	Block	45
Roof Cold (PIU)	400mm mineral wool λ 0.044, 100 between 300 above Joists	0.11 W/m ² K	Timber, plaster board	9
Windows	Double glazed BFRG g-value 0.44	1.30 W/m ² K		
Doors		1.10 W/m ² K		
Air permeability	Test required to all plots to achieve 5m ³		Air test results for each plot	
Lintels	Birtley lintels or similar with no base plate.		Air test results for each plot	
Thermal Bridging	https://www.recognisedconstructiondetails.co.uk/home		Photograph required for each junction	
Manufactures data sheets and BBA certificates to be provided for insulation to all areas, bricks & blocks, Timber Frame or other construction methodology / BRFC, BSI or CERTASS data to be provided for Windows and Doors				
Heating, Ventilation, LZC etc.			Evidence required, (geolocation photographs to show Location, date and time)	
Heating	Daikin Altherma, ERGA04EVA + EHBH04E6V		Photograph to show identification label(s), including make/model and serial N°	
Emitter	Radiators			
Controls	Time and Temperature Zone Control		Photograph of heating controls	
Heating Flow Temperature	<45°C		Heating Commissioning sheets or designs showing heating flow temperature	
Compensator	Delayed Start thermostat		Photograph of heating controls	
Domestic Hot Water (DHW)	Sunamp		Photograph of primary pipework continuity of insulation if applicable	
Mixer Showers	No higher than 11 Litres /min		Photograph of each shower	
Electric Showers	None		Evidence of flow rate settings for each shower	
Ventilation	Part F, System 3, decentralised Mechanical Extract Ventilation (dMEV)		Photograph of Ventilation system, ductwork and insulation around ductwork	
Secondary heating	None		Photograph of secondary heating if applicable	
Gas/Electric meter	Smart Meters. Electric meter with export capability		Photograph of Electric/Gas Meter	
Photovoltaic	PV based on 350watt panels		Photograph of Photovoltaic installation, MCS certificate etc	
Photovoltaic Battery	None		Photograph of Photovoltaic installation, MCS certificate etc	
Appendix G (FGHRS / WWHRS)	None		Photograph if applicable	
Appendix Q (other Tech)	None		Photograph if applicable	
LE lights	Based on LED light bulb or light fitting, Power - 10watt Efficacy - 80 Lumens per circuit watt		Manufactures datasheet for each light fitting & lighting schedule	
Overheating	Not Assessed, needs to be assessed under Approved Document Part O, simplified assessment or TM59 Dynamic assessment			

Property details					AD.L Volume 1 2021										Block Compliance						M & E		System 1					System 2										
Plot N°	House Type	Front Orient	Side	Det	GIFA	DER	TER	DER / TER %	DER =< TER	DPER	TPER	DPER / TPER %	TPER =< TPER	DFEE	TFEE	DFEE / TFEE %	DFEE =< TFEE	SAP Rating	Band	DER x TFA	TER x TFA	DPER x TFA	TPER x TFA	DFEE x TFA	TFEE x TFA	Heating	DHW	Orient	Pitch	No Panels	Panel size (Watts)	PV Kw Peak (Kw)	Orient	Pitch	No Panels	Panel size (Watts)	PV Kw Peak (Kw)	
6	B1 (3B/5P)	North	West	End	75.98	1.74	11.92	85.40%	PASS	20.17	62.27	67.60%	PASS	37.81	38.26	1.17%	PASS	93	A	132.21	905.68	1532.52	4731.27	2872.80	2906.99	ASHP	System 3	South	30	8	350	2.80						
7	B1 (3B/5P)	North		Mid	75.98	1.45	10.62	86.34%	PASS	17.34	55.28	68.63%	PASS	31.59	31.96	1.15%	PASS	94	A	110.17	806.91	1317.49	4200.17	2400.21	2428.32	ASHP	System 3	South	30	8	350	2.80						
8	B1 (3B/5P)	North	East	End	75.98	1.74	11.92	85.40%	PASS	20.17	62.27	67.60%	PASS	37.81	38.26	1.17%	PASS	93	A	132.21	905.68	1532.52	4731.27	2872.80	2906.99	ASHP	System 3	South	30	8	350	2.80						
9	B1 (3B/5P)	North	West	End	75.98	1.74	11.92	85.40%	PASS	20.17	62.27	67.60%	PASS	37.81	38.26	1.17%	PASS	93	A	132.21	905.68	1532.52	4731.27	2872.80	2906.99	ASHP	System 3	South	30	8	350	2.80						
10	B1 (3B/5P)	North		Mid	75.98	1.45	10.62	86.34%	PASS	17.34	55.28	68.63%	PASS	31.59	31.96	1.15%	PASS	94	A	110.17	806.91	1317.49	4200.17	2400.21	2428.32	ASHP	System 3	South	30	8	350	2.80						
11	B1 (3B/5P)	North	East	End	75.98	1.74	11.92	85.40%	PASS	20.17	62.27	67.60%	PASS	37.81	38.26	1.17%	PASS	93	A	132.21	905.68	1532.52	4731.27	2872.80	2906.99	ASHP	System 3	South	30	8	350	2.80						
12	A1 (2B/4P)	North	West	Semi	62.00	1.54	13.10	88.24%	PASS	19.00	68.66	72.32%	PASS	38.88	39.20	0.81%	PASS	94	A	95.48	812.20	1178.00	4256.92	2410.56	2430.40	ASHP	System 3	South	30	8	350	2.80						
13	A1 (2B/4P)	North	East	Semi	62.00	1.54	13.10	88.24%	PASS	19.00	68.66	72.32%	PASS	38.88	39.20	0.81%	PASS	94	A	95.48	812.20	1178.00	4256.92	2410.56	2430.40	ASHP	System 3	South	30	8	350	2.80						
14	B1 (3B/5P)	East	North	Semi	75.98	1.78	12.35	85.58%	PASS	20.82	64.55	67.74%	PASS	40.49	40.68	0.46%	PASS	93	A	135.24	938.35	1581.90	4904.51	3076.43	3090.87	ASHP	System 3	West	30	10	350	3.50						
15	B1 (3B/5P)	East	South	Semi	75.98	1.73	12.14	85.74%	PASS	20.28	63.45	68.03%	PASS	39.49	39.75	0.65%	PASS	93	A	131.45	922.40	1540.87	4820.93	3000.45	3020.21	ASHP	System 3	West	30	10	350	3.50						
16	B1 (3B/5P)	East	North	Semi	75.98	1.78	12.35	85.58%	PASS	20.82	64.55	67.74%	PASS	40.49	40.68	0.46%	PASS	93	A	135.24	938.35	1581.90	4904.51	3076.43	3090.87	ASHP	System 3	West	30	10	350	3.50						
17	B1 (3B/5P)	East	South	Semi	75.98	1.73	12.14	85.74%	PASS	20.28	63.45	68.03%	PASS	39.49	39.75	0.65%	PASS	93	A	131.45	922.40	1540.87	4820.93	3000.45	3020.21	ASHP	System 3	West	30	10	350	3.50						

Rev	Date	Description