

Property Reference	5893-SAP-BPA-Fovant Issu								te	22/08/2024	2/08/2024	
Assessment Reference	000000000000000000000000000000000000000											
Property	SN3 5JH											
0.55 //	<u>'</u>											
SAP Rating			80 C	DER	4.4	18		TER		10.32		
Environmental			96 A	% DER < TEF						56.59		
CO ₂ Emissions (t/year)			0.45	DFEE		.48		TFEE		32.93		
Compliance Check			See BREL	% DFEE < TF						1.36		
% DPER < TPER			13.07	DPER	46	.93		TPER		53.98		
Assessor Details	Mr. Lyle And	drews						Assess	or ID	AM30-00	01	
Client	5893-SAP-E	3PA-Fovant, Caroli	ne Everett									
SUMMARY FOR INPL	IT DATA FOR	: New Build (A	s Designed)									
Orientation			Northwest									
Property Tenture			ND									
Transaction Type			6									
Terrain Type			Suburban									
			House, Semi-Detacl	ned.								
1.0 Property Type 2.0 Number of Storeys			3	icu								
3.0 Date Built			2024									
			2024									
4.0 Sheltered Sides			<u> </u>									
5.0 Sunlight/Shade			Average or unknown									
6.0 Thermal Mass Parame		Precise calculation										
Thermal Mass			216.61					kJ/m²K				
7.0 Electricity Tariff			Standard									
Smart electricity meter	Smart electricity meter fitted			Yes								
Smart gas meter fitted			No									
7.0 Measurements												
			Ground floo 1st Store		0 m	er In	ternal Fl 35.95 35.95	m²	a Av	erage Store 2.40 m 2.55 m	· ·	
			2nd Store	,			35.95			2.24 m		
8.0 Living Area			11.40					m²				
9.0 External Walls												
Description	Туре	Construction		U-Value Kapp (W/m²K) (kJ/m²		Nett Area	Shelter Res	Shelte	er Op	penings Area (Calculation Type	
External Walls	Cavity Wall	Cavity wall : plasterbo filled cavity, any outside	ard on dabs, AAC block, le structure	0.15 60.00			0.00	None	•		Gross Area	
9.1 Party Walls		<u> </u>										
Description	Type	Construct	tion			U-Value					elter	
Party Wall	Filled Cavit Edge Seali		sterboard on dabs bo blocks, cavity or cav		ight	(W/m²K) 0.00	(kJ/m²K 110.00		Res		one	
9.2 Internal Walls												
Description		Construction	on							Kappa /	Area (m²	
Stud Walls Block Walls			d on timber frame k, plasterboard on da	bs						9.00 75.00	138.64 67.87	
10.0 External Roofs					_							
Description	Туре	Construction				Gross ()Area(m²)	Nett Area	Shelter Code		Calculation Type	Opening	
Ins at Rafter	External Slop Roof	e Plasterboard, i	nsulated slope	0.15	9.00	43.80	(m²) 42.10	None		Enter Gross Area	1.70	
10.2 Internal Ceilings												
Description GF Internal Ceilings FF Internal Ceiling		Storey Lowest occupied +1	Construction Plasterboard ceilir Plasterboard ceilir							35	(m²) .95 .95	

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11.0 Heat Loss Floors Description	Туре	Storey Inde	x	Construction		U-Val		Shelter Code			oa Area (m²
Heatloss Floor	Ground Floor - Solid	Lowest occu	pied	Suspended concrete floor, o	carpeted	(W/m² 0.13		None		actor (kJ/m ² 0.00 75.0	
11.2 Internal Floors											
Description		Storey Index	Con	struction						Kappa (kJ/m²K)	Area (m²)
FF Internal Floor SF Internal Floor		IIIGCX		terboard ceiling, carpete terboard ceiling, carpete						9.00 9.00	35.95 35.95
12.0 Opening Types Description	Data Source	Туре		Glazing		Glazing	Filling	G-value	Frame	Frame	U Value
Half-Glazed Doors	Manufacturer	Half Glaz	ed Do	or Double Low-E So	oft 0.05	Gap	Type	0.63	Type	Factor 0.70	(W/m²K) 1.20
Windows Roof Windows	Manufacturer Manufacturer	Window Roof Win	dow	Double Low-E So Double Low-E So				0.63 0.63		0.70 0.70	1.20 1.20
Glazed Door	Manufacturer	Window		Double Low-E So				0.63		0.70	1.20
13.0 Openings											
Name Front Door	Opening Ty Half-Glazed			Location External Walls		Orienta North \		Area (1.76		Pi	tch
NW Windows	Windows	D0013		External Walls		North \	Vest	3.95	;		
NE Windows SE Windows	Windows Windows			External Walls External Walls		North South		2.10 4.58			
Front Roof Light Rear Roof Light	Roof Windov Roof Windov			Ins at Rafter Ins at Rafter		North \ South		0.78 0.92			.3 .3
Patio Doors	Glazed Door			External Walls		South		3.15		7	.5
14.0 Conservatory				None							
15.0 Draught Proofing				100				%			
16.0 Draught Lobby				No							
17.0 Thermal Bridging				Calculate Bridges							
17.1 List of Bridges				Caicalate Ellagee							
Bridge Type				гсе Туре	Length	Psi		d Reference:			Imported
E6 Intermediate floor wit E11 Eaves (insulation at				pendently assessed pendently assessed	36.00 9.45	0.00 0.03	0.00 0.03	Kingspan Kingspan			No No
E13 Gable (insulation at E16 Corner (normal)	rafter level)			pendently assessed pendently assessed	11.95 17.19	0.06 0.03	0.06 0.03	Kingspan Kingspan			No No
E17 Corner (inverted – i	nternal area great	er than		pendently assessed	5.73	-0.06	-0.06	Kingspan			No
external area) E18 Party wall between	dwellings		Inde	pendently assessed	13.68	0.04	0.04	Kingspan			No
P1 Party wall - Ground fl P2 Party wall - Intermedi		dwelling		pendently assessed pendently assessed	7.30 14.60	0.21 -0.02	0.21 -0.02	Heatflux Heatflux			No No
P5 Party wall - Roof (ins	ulation at rafter le		Inde	pendently assessed	5.05	0.27	0.27	Heatflux			No
R4 Ridge (vaulted ceiling E1 Steel lintel with perfo		late		pendently assessed pendently assessed	8.85 13.29	0.02 0.35	0.02 0.35	Heatflux Kingspan			No No
E3 Sill E4 Jamb				pendently assessed pendently assessed	10.95 27.60	0.02 0.02	0.02 0.02	Kingspan Kingspan			No No
E5 Ground floor (normal)		Inde	pendently assessed	18.00	0.06	0.06	Kingspan			Yes
R5 Ridge (inverted) Y-value			inde	pendently assessed 0.06	4.88	-0.03	-0.03	Heatflux W/m²K			No
19.0 Mechanical Ventilation	n										
Mechanical Ventilation				F							
Mechanical Ventila	tion System Pres	ent		No							
20.0 Fans, Open Fireplace: Number of open chimne	•			0							
Number of open flues	ys			0							
Number of chimneys/flue	es attached to clos	sed fire		0				=			
Number of flues attached				0				\dashv			
Number of flues attached		٠.		0				\dashv			
				0				\dashv			
Number of blocked chim	•							\dashv			
Number of intermittent e				4				_			
Number of passive vents				0				_			
Number of flueless gas f	ires			0							
21.0 Fixed Cooling System	1			No							
22.0 Pressure Testing				Yes							

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Designed AP ₅₀	5.00			m³/(h.m²) @ 50 Pa		
Test Method	Blower Door]			
22.0 Lighting						
No Fixed Lighting	No					
	Name LED Downlighters LED Pendant Ext LED Wall Light	Efficacy 75.00 75.00 75.00	Power 4.00 5.00 5.00	Capacity 300.00 375.00 375.00	Count 16 6 2	
24.0 Main Heating 1	Database					
Percentage of Heat	100.00			%		
Database Ref. No.	102614					
Fuel Type	Electricity					
In Winter	237.21					
In Summer	175.12					
Model Name	aroTHERM 8kW					
Manufacturer	Vaillant Group UK Lt	d				
System Type	Heat Pump					
Controls SAP Code	2210					
Is MHS Pumped	Pump in heated space	ce				
Heating Pump Age	2013 or later					
Heat Emitter	Radiators and Under	floor				
Underfloor Heating	Yes - Pipes in Wood			7		
Flow Temperature	Enter value			Ī		
Flow Temperature Value	55.00					
25.0 Main Heating 2	None					
25.0 Main Heating 2 26.0 Heat Networks	None					
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None	None	rcentage Of Heat Heat	Heat El Power Ratio	ectrical Fuel Facto	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None	None		Power	ectrical Fuel Facto	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating	None Use Efficiency Pe		Power	ectrical Fuel Facto	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating	None Use Efficiency Pe		Power	ectrical Fuel Facto	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating	None Use Efficiency Pe		Power	ectrical Fuel Facto	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating Water Heating Water Heating	None Use Efficiency Per None Main Heating 1		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating Water Heating SAP Code Flue Gas Heat Recovery System	None Use Efficiency Performance None Main Heating 1 901		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1	None Use Efficiency Per None Main Heating 1 901 No		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating Water Heating SAP Code Flue Gas Heat Recovery System	None Use Efficiency Performance None Main Heating 1 901 No No		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2	None None None		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System Solar Panel	None Use Efficiency Performance None Main Heating 1 901 No No No No		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System	None None None Main Heating 1 901 No No No No No No No Yes		Power	ectrical Fuel Factor	r Efficiency ty	
26.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System Solar Panel Water use <= 125 litres/person/day	None None None Main Heating 1 901 No No No No No		Power	ectrical Fuel Factor	r Efficiency ty	
Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System Solar Panel Water use <= 125 litres/person/day Cold Water Source	None None None Main Heating 1 901 No No No No No No No Yes		Power	ectrical Fuel Factor	r Efficiency ty	
Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System Solar Panel Water use <= 125 litres/person/day Cold Water Source Bath Count Immersion Only Heating Hot Water	None None Main Heating 1 901 No No No No No No No No No N		Power Ratio	ectrical Fuel Factor		
Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None 27.0 Secondary Heating 28.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Instantaneous System 2 Waste Water Heat Recovery Storage System Solar Panel Water use <= 125 litres/person/day Cold Water Source Bath Count Immersion Only Heating Hot Water	None None Main Heating 1 901 No No No No No No No No No N	Heat	Power Ratio			

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Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
34.0 Small-scale Hydro]		
31.0 Thermal Sto	ore			None]		
In Airing Cupb	ooard			No							
Pipes insulation					ulated primary	/ pipework					
Loss							kWh/day				
Cylinder Volur	me			210.00] L				
Insulation Typ	е			Measure	d Loss						
Independent 7	Time Control			No]		
Cylinder In Heated Space]				
Cylinder Stat]				
29.0 Hot Water C	ylinder			Hot Wate	er Cylinder						

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

 Typical Cost
 Typical savings per year
 Ratings after improvement SAP rating
 Environmental Impact

 £4,000 - £6,000
 £84
 B 82
 A 96

 £3,500 - £5,500
 £246
 B 87
 A 97

 0
 0

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