

Property Reference	5893-SAP-BPA-Fovant Issu								Issued on Date 22/		
Assessment Reference											
Property	SN3 5JH										
CAD Dating				DED	4.5			TED		10.55	
SAP Rating			80 C	DER	4.5	56		TER		10.55	
Environmental			96 A	% DER < TEF						56.78	
CO ₂ Emissions (t/year)			0.46	DFEE	33.	.24		TFEE		33.65	
Compliance Check			See BREL	% DFEE < TF				TDED.		1.20	
% DPER < TPER			13.55	DPER	47.	.78		TPER		55.27	
Assessor Details	Mr. Lyle And	drews						Assess	or ID	AM30-0	001
Client	5893-SAP-I	3PA-Fovant, Caroli	ne Everett								
SUMMARY FOR INPL	JT DATA FOR	: New Build (A	s Designed)								
Orientation			Northwest								
Property Tenture			ND								
Transaction Type			6								
Terrain Type			Suburban								
1.0 Property Type			House, Semi-Detacl	ned							
2.0 Number of Storeys			3	.54							
3.0 Date Built			2024								
4.0 Sheltered Sides			1								
5.0 Sunlight/Shade			Average or unknown								
_	ntor		Average or unknown								
6.0 Thermal Mass Parameter Thermal Mass			Precise calculation 217.38					kJ/m²K			
			217.50					X0/111 IX			
7.0 Electricity Tariff			Standard								
Smart electricity meter	Smart electricity meter fitted			Yes							
Smart gas meter fitted			No								
7.0 Measurements			Ground floo		0 m	er Int	ternal Flo 35.95	m²	Ave	erage Store 2.40 r	n
			1st Store 2nd Store				35.95 35.95			2.55 r 2.24 r	
8.0 Living Area			11.40				1	m²			
9.0 External Walls					_						
Description	Type	Construction	and an data Arrive A	U-Value Kappa (W/m²K) (kJ/m²l	K) Area(m		Res	Shelte	•	enings Area	Type
External Walls	Cavity Wall	Cavity wall : plasterbo filled cavity, any outsic	ard on dabs, AAC block, le structure	0.15 60.00	113.90	99.75	0.00	None	· 	14.15 Ente	r Gross Area
9.1 Party Walls											
Description	Туре	Construct	tion			U-Value (W/m²K)		Area) (m²)	Shelt Res		nelter
Party Wall	Filled Cavi Edge Seali		sterboard on dabs bo blocks, cavity or cav		ight	0.00	110.00	55.50			lone
9.2 Internal Walls		_									_
Description		Construction	on							Kappa (kJ/m²K)	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	(m ²) 42.10	None		Enter Gross Area	s 1.70
10.2 Internal Ceilings Description		Storey	Construction							Are	a (m²)
GF Internal Ceilings FF Internal Ceiling		Lowest occupied +1	Plasterboard ceilir Plasterboard ceilir								5.95 5.95

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11.0 Heat Loss Floors											
		Storey Index	ex Construction			U-Value S (W/m²K)				nelter Kappa Area (m²	
Heatloss Floor	Ground Floor - Solid	Lowest occup	oied	Suspended concrete floor, ca	rpeted	0.1		None		actor (kJ/n 0.00 75.0	
11.2 Internal Floors											
Description		Storey Index	Cons	struction						Kappa (kJ/m²K	
FF Internal Floor SF Internal Floor				sterboard ceiling, carpeted chipboard floor sterboard ceiling, carpeted chipboard floor							35.95 35.95
12.0 Opening Types		_		. .		<u>.</u>			_	_	
Description		Туре		Glazing		Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Half-Glazed Doors Windows Roof Windows	Manufacturer	Half Glaze Window Roof Wind		or Double Low-E Sof Double Low-E Sof Double Low-E Sof	t 0.05			0.63 0.63 0.63		0.70 0.70 0.70	1.20 1.20 1.20
13.0 Openings											
Name Front Door Side Door NW Windows NE Windows SE Windows Front Roof Light Rear Roof Light	Opening Typ Half-Glazed I Half-Glazed I Windows Windows Windows Roof Window Roof Window	Doors Doors		Location External Walls External Walls External Walls External Walls External Walls Ins at Rafter Ins at Rafter		Orient North North North South North South	West East West East East West	Area (1.7 1.7 3.9 2.1 4.5 0.7 0.9	6 6 5 0 8 8		itch 43 43
14.0 Conservatory				None							
15.0 Draught Proofing				100				% %			
16.0 Draught Lobby			L	No							
17.0 Thermal Bridging 17.1 List of Bridges				Calculate Bridges							
Bridge Type E6 Intermediate floor w E11 Eaves (insulation a E13 Gable (insulation a E16 Corner (normal) E17 Corner (inverted – external area)	at rafter level) at rafter level) · internal area greate	r than	Inder Inder Inder Inder Inder	ce Type pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed	Length 36.00 9.45 11.95 17.19 5.73	Psi 0.00 0.03 0.06 0.03 -0.06	0.00 0.03 0.06 0.03 -0.06	d Reference Kingspan Kingspan Kingspan Kingspan Kingspan			Importe No No No No No
E18 Party wall betweer P1 Party wall - Ground P2 Party wall - Interme P5 Party wall - Roof (in R4 Ridge (vaulted ceili E1 Steel lintel with perf E3 Sill E4 Jamb E5 Ground floor (norma R5 Ridge (inverted)	floor diate floor within a disulation at rafter leving) forated steel base pla	el)	Inder Inder Inder Inder Inder Inder Inder	pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed pendently assessed	13.68 7.30 14.60 5.05 8.85 12.63 10.95 27.60 18.00 4.88	0.04 0.21 -0.02 0.27 0.02 0.35 0.02 0.02 0.06 -0.03	0.04 0.21 -0.02 0.27 0.02 0.35 0.02 0.02 0.06 -0.03	Kingspan Heatflux Heatflux Heatflux Kingspan Kingspan Kingspan Kingspan Kingspan Kingspan			No No No No Yes Yes Yes Yes No
Y-value				0.06				W/m²K			
19.0 Mechanical Ventilati	on										
Mechanical Ventilatio											
Mechanical Venti	lation System Prese	nt	[No							
20.0 Fans, Open Fireplac	es, Flues										
Number of open chimn				0							
Number of open flues				0							
Number of chimneys/flu	ues attached to close	ed fire		0							
Number of flues attach	ed to solid fuel boiler	r	Ī	0							
Number of flues attach	ed to other heater		Ī)							
Number of blocked chi	mneys		Ī	0				_			
Number of intermittent	•		Ī.	4							
Number of passive ven				 O							
Number of flueless gas				0				Ħ			
21.0 Fixed Cooling Syste				No							
	•••										
22.0 Pressure Testing			Ĺ	Yes							
Designed AP ₅₀				5.00		m³/(h.m	m³/(h.m²) @ 50 Pa				

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Test Method	Blower Door				
22.0 Lighting					
No Fixed Lighting	No				
	Name LED Downlighters	Efficacy 75.00	Power 4.00	Capacity 300.00	Count 16
	LED Pendant Ext LED Wall Light	75.00 75.00	5.00 5.00	375.00 375.00	6 2
4.0 Main Heating 1	Database				
Percentage of Heat	100.00			%	
Database Ref. No.	102614				
Fuel Type	Electricity				
In Winter	237.21				
In Summer	175.22				
Model Name	aroTHERM 8kW				
Manufacturer	Vaillant Group UK L	_td			
System Type	Heat Pump				
Controls SAP Code	2210				
Is MHS Pumped	Pump in heated spa	ace			
Heating Pump Age	2013 or later				
Heat Emitter	Radiators and Unde	erfloor			
Underfloor Heating	Yes - Pipes in Wood	d			
Flow Temperature	Enter value				
Flow Temperature Value	55.00				
5.0 Main Heating 2	None				
	None	ercentage Of He Heat	Power	Electrical Fuel Fact	or Efficiency t
6.0 Heat Networks Heat Source Fuel Type Heating Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None	None			Electrical Fuel Fact	or Efficiency t
Heat source 1 None Heat source 2 None Heat source 3 None Heat source 4 None Heat source 5 None	None g Use Efficiency Po		Power	Electrical Fuel Fact	or Efficiency t
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 17.0 Secondary Heating	None		Power	Electrical Fuel Fact	or Efficiency f
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 7.0 Secondary Heating 8.0 Water Heating	None J Use Efficiency Pe		Power	Electrical Fuel Fact	or Efficiency
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 7.0 Secondary Heating Water Heating Water Heating	None Juse Efficiency Po None Main Heating 1		Power	Electrical Fuel Fact	or Efficiency
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 7.0 Secondary Heating Water Heating Water Heating SAP Code	None Use Efficiency Positive		Power	Electrical Fuel Fact	or Efficiency t
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 7.0 Secondary Heating Water Heating Water Heating SAP Code Flue Gas Heat Recovery System	None Vise Efficiency Positive		Power	Electrical Fuel Fact	or Efficiency
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 17.0 Secondary Heating 18.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1	None None None Main Heating 1 901 No No		Power	Electrical Fuel Fact	or Efficiency t
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 17.0 Secondary Heating 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 Main Heating 1 901 No No No		Power	Electrical Fuel Fact	or Efficiency t
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 7.0 Secondary Heating 8.0 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		Power	Electrical Fuel Fact	or Efficiency t
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 17.0 Secondary Heating 18.0 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 None None Main Heating 1 901 No No No No No		Power	Electrical Fuel Fact	or Efficiency
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 7.0 Secondary Heating 8.0 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 No Yes		Power	Electrical Fuel Fact	or Efficiency
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 Heat source 5 None 17.0 Secondary Heating 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 From mains		Power	Electrical Fuel Fact	or Efficiency t
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 Heat source 5 None 17.0 Secondary 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	None None None Main Heating 1 901 No No No No No From mains 1		Power	Electrical Fuel Fact	or Efficiency
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 Heat source 5 None 17.0 Secondary Heating 18.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 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 None Main Heating 1 901 No No No No No No From mains		Power	Electrical Fuel Fact	or Efficiency
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 Heat source 5 None 17.0 Secondary Heating 18.0 Water Heating Water Heating SAP Code Flue Gas Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 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 None Main Heating 1 901 No No No No No No No No No N	Heat	Power Ratio	Connected Connected	
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 Heat source 5 None Provided Heating Respectively: Heat source 4 None Heat source 5 None Respectively: Heat source 5 None Respectively: Respectively: Heat source 4 None Heat source 5 None Respectively: Heat Respectively: Heat Recovery System Waste Water Heat Recovery Instantaneous System 1 Waste Water Heat Recovery Storage System Solar Panel Water use <= 125 litres/person/day Cold Water Source Bath Count Immersion Only Heating Hot Water Respectively: Heat Source Fuel Type Heating Heat Source F	None None None Main Heating 1 901 No No No No No No No No No N	Heat	Power Ratio		
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 28.1 Showers Description Shower T	None None None Main Heating 1 901 No No No No No No No No No N	Flow Ra	Power Ratio	Connected Connec	

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Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
34.0 Small-scale	Hydro			None							
31.0 Thermal Sto	ore			None]		
In Airing Cupb	ooard			No							
Pipes insulation	on			Fully insu	ulated primary	/ pipework					
Loss				1.00					kWh/day		
Cylinder Volur	me			210.00					L		
Insulation Typ	e			Measure	d Loss						
Independent 7	Time Control			No							
Cylinder In Heated Space											
Cylinder Stat				No							

Recommendations

Lower cost measures None

Further measures to achieve even higher standards

Ratings after improvement

SAP rating Environmental Impact

B 81 A 96
B 87 A 97
0 0 **Typical Cost** Typical savings per year £4,000 - £6,000 £3,500 - £5,500 £84 £247

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