

Property Reference	6381_911	ST-105W-HAI	MPTON PARK					Issu	ed on Da	ate	04/11/	2025	
Assessment Reference	00001 W		WIFTON FARK		Pro	p Type I	Ref		SUST-10				,
Property			lampton Park, Cothar	n Bristol BS				0301-	3031-10	JVV-I IAI	VII TOIN	I AIN	
	Euria daj	accini to, oo, i			JO OLIT								
SAP Rating			83 B	DER		4.06			TER		13.		
Environmental			97 A	% DER <	< TER						70.		
CO₂ Emissions (t/year)			0.21	DFEE		49.5	2		TFEE		55.		
Compliance Check			See BREL	% DFEE	< TFE						11.		
% DPER < TPER			34.50	DPER		48.0	4		TPER		73.	34	
Assessor Details									Asses	sor ID	N3	88-000)1
Client	105 West Arc	hitects Ltd, 10	5 West Architects Ltd										
SUMMARY FOR INPUT	DATA FOR:	New Build	(As Designed)										
Orientation			West										
Property Tenture			ND										
Transaction Type			6										
Terrain Type			Suburban										
1.0 Property Type			House, Detached										
2.0 Number of Storeys			2										
3.0 Date Built			2025										
4.0 Sheltered Sides			2										
5.0 Sunlight/Shade			Average or unkno	wn									
6.0 Thermal Mass Parameter			Precise calculation	n									
Thermal Mass			487.10						kJ/m²K				
7.0 Electricity Tariff			Standard										
Smart electricity meter fitted	d		Yes										
Smart gas meter fitted			No										
7.0 Measurements													
			Ground f		36.06	erimete m	r In		loor Are 7 m²	a A		Store 2.45 m	y Height
			1st Sto		9.16 r				2 m²			2.20 m	
8.0 Living Area			53.91						m²				
9.0 External Walls													
Description Typ	oe C	Construction		U-Value (W/m²K) (Nett Area (m²)	Shelter Res	Shel	ter (Openings		Calculation Type
	vity Wall C	Other			181.80	113.90	100.84	0.00	Nor	ie	13.06		Gross Area
9.2 Internal Walls Description		Constru	ction								Kap	na [/]	Area (m²
Internal Wall 1			ock, dense plaster								(kJ/m 100.	²K)	68.76
10.0 External Roofs		Delise Di	out, ucrise piaster								100.		00.70
	Гуре	Construction	on			Kappa (J/m²K)/	Gross Area(m²)			Shelte Factor		lation(pe	Opening
	External Flat	Plasterboard	d, insulated flat roof	0	.15	9.00	49.20	(m²) 47.36	None	0.00			1.84
External Roof RAFTER E	Roof External Slope Roof	Plasterboard	d, insulated slope	0	.15	9.00	9.00	7.84	None	0.00	An Enter An		1.16
10.2 Internal Ceilings													
Description		Storey .owest occupio	Construction ed Plasterboard ce	iling, carpeted	l chipbe	oard floo	r					Area 8.	
Internal Ceiling 1		1		5, I									
Internal Ceiling 1 11.0 Heat Loss Floors													
11.0 Heat Loss Floors	уре	Storey Index	Construction				Value //m²K)	She	lter Code		Shelter Factor		
11.0 Heat Loss Floors Description Ty	ype Fround Floor - Solic					(V	Value //m²K) 0.13		Iter Code None			Kappa (kJ/m²K 117.00	

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Internal Floor 1			Plas	terboard ceiling, carpeted	chipboard flo	оог				18.00	8.12
12.0 Opening Types											
Description	Data Source	Type		Glazing		Glazing	Filling	G-value	Frame	Frame	U Value
Glazed door & window Roof light	Manufacturer Manufacturer Manufacturer Manufacturer	Solid Door Window Roof Light Roof Windo		Double Low-E Soft Double Low-E Soft Double Low-E Soft	0.05	Gap	Type	0.00 0.63 0.50 0.50	Type	0.70 0.70 0.70 0.70	(W/m²K) 1.40 1.20 1.30 1.30
13.0 Openings											
Name ED1 ED2 W1/2 W3-5 W6 RL1 RL2 RW1	Entrance door Glazed door & window Roof light Roof light		Location External Wall 1 External Roof FLAT External Roof RAFTER		Orientation West East East East North Horizontal Horizontal East		Area (m²) 1.94 7.68 1.77 1.10 0.57 0.56 1.28 1.16			0 0 11	
14.0 Conservatory				None							
15.0 Draught Proofing			i	100				%			
16.0 Draught Lobby			ĺ	No							
17.0 Thermal Bridging				Calculate Bridges							
17.1 List of Bridges				Junio Diago							
E1 Steel lintel with perforated steel base plate E3 Sill In E4 Jamb In E5 Ground floor (normal) In E6 Intermediate floor within a dwelling In E16 Corner (normal) In R1 Head of roof window In R2 Sill of roof window In R3 Jamb of roof window In R11 Upstands or kerbs of rooflights In E11 Eaves (insulation at rafter level) In E13 Gable (insulation at rafter level) In E14 Flat roof In E17 Corner (inverted – internal area greater than external area)		Inde Inde Inde Inde Inde Tabl Tabl Tabl Inde Inde Inde	pendently assessed e K1 - Default e K1 - Default e K1 - Default pendently assessed	Length 7.55 3.45 20.68 36.06 9.16 23.73 0.80 0.80 2.90 7.80 4.43 4.93 30.72 2.45	Psi Adjusted R 0.29 0.29 0.03 0.03 0.02 0.02 0.04 0.04 0.00 0.05 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.02 0.02 0.04 0.04 0.05 0.05 -0.07 0.12 0.12		Reference	leference:		Imported Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes No No No No No	
Y-value				0.04				W/m²K			
19.0 Mechanical Ventilation								_			
Mechanical Ventilation											
Mechanical Ventilatio	n System Pres	ent		Yes							
Mechanical Ventilatio	n data Type		Ï	Data Sheet							
Туре				Balanced mechanical ver	ntilation with h	neat recove	ery				
Manufacturer SFP				0.50							
Duct Type				Rigid				=			
MVHR Efficiency				80.00							
Wet Rooms				1							
Brand, Model				TBC				=			
SFP from Installer Co	ommissionina (`ertificate		No				=			
MVHR System Locati	_	oci unodio		Inside heated envelope (installed evel	isively)					
Duct Installation Spec				Level 1	inotalied exer	abively)					
· .											
20.0 Fans, Open Fireplaces, I Number of open chimneys				0							
Number of open flues				0				_			
·	attached to ele	cod fire		0				_			
Number of chimneys/flues Number of flues attached to				0				\dashv			
		CI									
Number of flues attached to				0				_			
Number of blocked chimne	•			0				\exists			
Number of intermittent extr	act tans			0							

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Number of passive vents	0				
Number of flueless gas fires	0			Ī	
21.0 Fixed Cooling System	No				
22.0 Pressure Testing	Yes				
Designed AP₅o	3.00			m³/(h.m²) @ 50 Pa	
Test Method	Blower Door				
22.0 Lighting				\neg	
No Fixed Lighting	No Name Lighting 1	Efficacy 80.00	Power 5.00	Capacity 400.00	Count 12
24.0 Main Heating 1	Database				
Description	ASHP				
Percentage of Heat	100.00			%	
Database Ref. No.	103727				
Fuel Type	Electricity				
In Winter	206.79				
In Summer	171.21				
Model Name	aroTHERM 3.5kW				
Manufacturer	Vaillant Group UK L	.td		Ī	
System Type	Heat Pump			Ī	
Controls SAP Code	2207			Ī	
Is MHS Pumped	Pump in heated spa	ace		Ī	
Heating Pump Age	2013 or later			Ī	
Heat Emitter	Radiators and Unde	erfloor		Ī	
Underfloor Heating	Yes - Pipes in thin s	screed		Ī	
Flow Temperature	Enter value			Ī	
Flow Temperature Value	45.00				
25.0 Main Heating 2	None				
26.0 Heat Networks	None				
27.0 Secondary Heating	None				
28.0 Water Heating					
Water Heating	Main Heating 1				
SAP Code	901				
Flue Gas Heat Recovery System	No				
Waste Water Heat Recovery Instantaneous System 1	No				
Waste Water Heat Recovery Instantaneous System 2	No				
Waste Water Heat Recovery Storage System	No				
Solar Panel	No				
Water use <= 125 litres/person/day	Yes				
Cold Water Source	From mains				
Bath Count	1				
Immersion Only Heating Hot Water	No				
28.1 Showers	_			_	
Description Shower 7		Flow Rate [I/min]	[kW]	Connected Connect	ted To
TBC Instantan	eous electric shower	• •	10.00	No	

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29.0 Hot Water C	ylinder			Hot Water Cylind	der					
Cylinder Stat				Yes						
Cylinder In He	eated Space			Yes						
Independent 7	Time Control			Yes						
Insulation Typ	e			Measured Loss						
Cylinder Volur	me			150.00				L		
Loss				1.80				kWh/da	ıy	
Pipes insulation	on			Fully insulated p	rimary pipework					
In Airing Cupb	ooard			No						
31.0 Thermal Sto	ore			None						
32.0 Photovoltai	c Unit			One Dwelling						
Export Capab	le Meter?			Yes						
Connected To	Dwelling			Yes						
Diverter				No						
Battery Capac	city [kWh]			0.00						
PV Cell	s kWp	Orientation	Elevation	Overshadir	ng FGHRS	MCS Certificate	Over: Facto	shading or	MCS Certificate	Panel Manufacturer
1.50		South	Horizontal	None Or Litt	tle	No	1.00		Reference	
34.0 Small-scale	Hydro			None						
Jan	Feb	Mar	Apr	May Ju	n Jul	Aug	Sep	Oct	t Nov	Dec
Recommendatio Lower cost n										

Further measures to achieve even higher standards

Ratings after improvement
SAP rating Environmental Impact
B 85 A 97
0 0
0 0 **Typical Cost** Typical savings per year £4,000 - £7,000 £80

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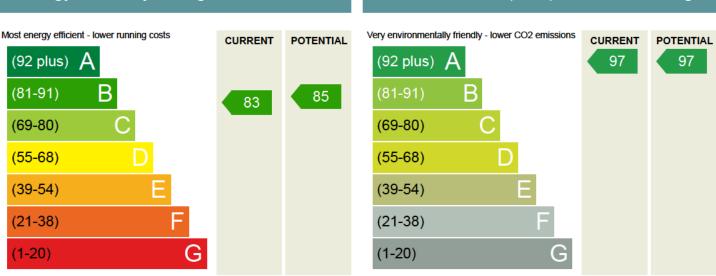
Dwelling Address	Land adjacent to, 36, Hampton Park, Cotham, Bristol, , BS6 6LH
Reference	6381-SUST-105W-HAMPTON PARK-00001 WITH PV
Assessment Date	04/11/2025
Submission Date	
Property Type	House, Detached
Total Floor Area	67

This Energy Report has been generated using the UK's National Calculation Methodology for dwellings, Standard Assessment Procedure (SAP). This methodology is used to assess the energy efficiency of dwellings which is calculated based on a dwelling's heating, hot water, ventilation and lighting usage.

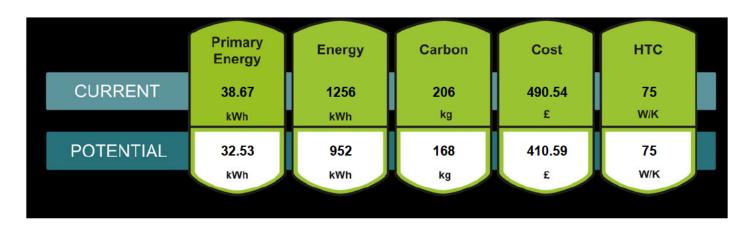
This document is not an Energy Performance Certificate (EPC) as required by the Energy Performance of Buildings Regulations

Energy Efficiency Rating

Carbon Dioxide (CO2) Emissions Rating



Additional ratings for your home



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Breakdown of property's energy performance

Each feature is assessed as one of the following:

Very Poor	Poor	Average	Good	Very Good				
Feature	Description	Description						
Walls	Average thermal transmi	Average thermal transmittance 0.14 W/m²K						
Roof	Average thermal transmi	ttance 0.15 W/m²K		Very Good				
Floor	Average thermal transmi	Very Good						
Windows	High performance glazin	Good						
Main heating	Air source heat pump, ra	Air source heat pump, radiators and underfloor, electric				Air source heat pump, radiators and underfloor, electric		Average
Main heating controls	Time and temperature zo	Time and temperature zone control				Fime and temperature zone control		Very Good
Secondary heating	None							
Hot water	From main system		Average					
Lighting	Good lighting efficiency	Good lighting efficiency						
Air tightness	Air permeability [AP50] =	Good						

Recommendations

The recommended measures provided below will help to improve the energy efficiency of the dwelling. To reach the dwelling's potential energy rating all of the recommended measures shown below would need to be installed. Having these measures installed individually or in any other order may give a different result when compared with the cumulative potential rating.

Recommended measures	Cumulative savings (per year)	Cumulative rating	Typical costs	Incremental savings (per year)	Cumulative CO2 rating
Solar water heating	£80	B 85	£4,000 - £7,000	£80	A 97

The typical cost is based on average installation prices across the country so may not be representative of the actual costs in your area.

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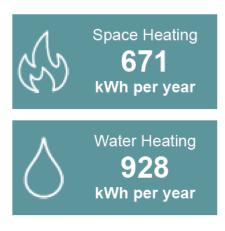


Estimated energy costs of the dwelling

The table below shows the estimated running costs of the space and water heating and lighting within the dwelling. It does not include the energy used from household appliances. The estimated annual costs after potential improvements indicates the total energy cost if all recommended measures named above were installed.

	Estimated annual costs	Estimated annual costs after potential improvements	Potential future savings
Lighting	£53	£53	
Heating	£230	£253	You
Hot Water	£433	£324	could save £80
New Technologies e.g. Impact of PV	-(£226)	-(£220)	
TOTAL	£491	£411	

Estimated energy use and potential savings



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About this document

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	alcu	l Dy	

Company/Trading name:

Phone number:

Email address:

Disclaimer

This Energy Report should not under any circumstances be treated as a Condition Survey and cannot be used to indicate that any element of the dwelling (e.g.heating system) is working correctly.

This Energy Report must not be used in situations where an Energy Performance Certificate (EPC) is required.

This Energy Report is generated from a set of data inputs which may not reflect the actual dimensions, services or construction of the dwelling.

The calculation used to generate this report reflects the SAP Methodology current at the time of report generation.

Glossary terms for additional metrics

Primary Energy	The measure of the energy required for lighting, heating and hot water in a property. This includes the efficiency of the property's heating system, power station efficiency for electricity and the energy used to produce the fuel and deliver it to the property.
Energy Used	The estimated amount of fuel energy for lighting, heating and hot water for the property. The estimate is based on typical usage which is likely to be different to actual consumption.
Carbon (CO2)	The current emissions based on the energy estimates.
Cost	The estimated cost of energy. The cost of each unit of fuel is based on an industry standard which is likely to be different to those the occupier actually pays.
Heat Transfer Coefficient	Heat flow through the property envelope where internal and external temperatures are different.

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