

ENERGY REPORT

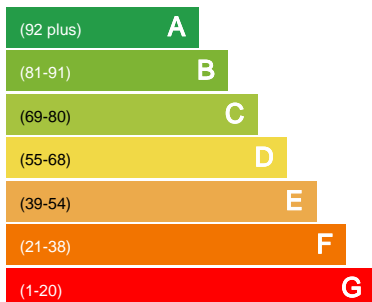
Dwelling Address	55, Park Drive, BALDOCK, SG7 6EX
Reference	005614
Assessment Date	03/10/2023
Submission Date	05/10/2023
Property Type	End-Terrace House
Total Floor Area	69 m ²

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

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

Energy Efficiency Rating

Very energy efficient - lower running costs



Current

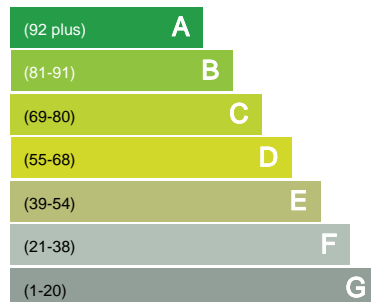
60

Potential

83

Carbon Dioxide (CO₂) Emissions Rating

Very environmentally friendly - lower CO₂ emissions



Current

54

Potential









80

Additional ratings for your home

	Primary Energy	Energy	Carbon	Cost	HTC
CURRENT	313.74 kWh	21792 kWh	3845.7 kg	1987 £	327 W/K
POTENTIAL	124.60 kWh	8655 kWh	1563.6 kg	689 £	211 W/K

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 a different order, may change the 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
Internal or external wall insulation	£418	 D 67	£4,000 - £14,000	£418	 D 64
Floor insulation (suspended floor)	£513	 C 69	£800 - £1,200	£95	 D 67
Solar water heating	£623	 C 71	£4,000 - £6,000	£110	 C 70
Solar photovoltaic panels, 2.5 kWp	£1,298	 B 83	£3,500 - £5,500	£675	 C 80

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

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 	£128	£128	
Heating 	£1555	£1047	
Hot Water 	£304	£189	
New Technologies e.g. Impact of PV	£0	- (£675)	
TOTAL	£1987	£689	

Estimated energy use and potential savings

Heating use in this property

Heating a property usually makes up the majority of energy used. Where applicable, this table shows the energy that could be saved in this property by insulating the loft and walls, based on typical energy use.



Space Heating

12346
kWh per year



Water Heating

2570
kWh per year

The table below shows the amount of heat energy that could be saved in this property by installing insulation, based on typical energy use.

Potential space heating energy saving	
Type of insulation	Amount of energy saved (kWh per year)
Impact of loft insulation	(2,874) kWh per year
Impact of cavity wall insulation	N/A
Impact of solid wall insulation	(4,090) kWh per year

About this document

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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 RdSAP 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 (CO ₂)	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.

Data inputs

Below is a full list of RdSAP data inputs which have been used to generate this Energy Report. These inputs typically include information about the building envelope (dimensions, walls, floors etc) as well as the utilities which service the property (water, heating, lighting etc). The data inputs can either be 'Inputted' or 'Assumed'. Inputted values are those which have been entered specifically for the calculation, and Assumed values are those required to complete the calculation.

		Inputted values	Assumed values					
Regs Region:		England						
Region:		Thames Valley						
Property Type:		H House, E End-Terrace						
Number of Storeys:		2						
Number of Rooms:		5						
Number of Rooms Heated:		5						
Dimension Type:		Internal						
Construction details:		Building part: Main - built in D 1950-1966						
	Floor Area [m²]	Room Height [m]	Perimeter [m]	Party Wall Length [m]				
Lowest floor	34.73	2.62	17.13	6.59				
First floor	34.73	2.40	17.13	6.59				
Floor Location:		G Ground floor						
Floor Type:		T Suspended timber						
Floor Insulation:		A As built						
Floor U-value Known:		No						
Wall Type:		SO Solid Brick						
Wall Insulation:		A As Built						
Wall Dry-lining:		No						
Wall Thickness Unknown:		No						
Wall Thickness:		250						
Wall U-value Known:		No						
Alternative Wall Area:		20.02						
Alternative Wall Type:		SO Solid Brick						
Alternative Wall Insulation:		A As Built						
Alternative Wall Dry-lining:		Yes						
Alternative Wall Thickness Unknown:		No						
Alternative Wall Thickness:		270						
Alternative Wall U-value Known:		No						
Party Wall:		S Solid masonry / timber / system build						
Roof Type:		PA Pitched (slates/tiles), access to loft						
Roof Insulation:		U Unknown						
Roof U-value Known:		No						
Conservatory								
Conservatory Present:		No						
Doors								
Total Doors:		2						
Insulated Doors:		0						
Windows								
Glazed Area		MM Much More than typical						
Area	Glazing Type	Frame Type	Glazing Gap	Location	Orientation	Data-Source	U-value	g-value
4.86	Double post or during 2002			Main construction	West	Manufacturer	2.00	0.72
1.45	Double post or during 2002			Main construction	South	Manufacturer	2.00	0.72
6.69	Double post or during 2002			Main construction	East	Manufacturer	2.00	0.72
Draught Proofing		100 %						
Ventilation & Cooling								
No. of open Fireplaces		0						

Data inputs

Mechanical Ventilation	No
Fixed Space Cooling	No
Lighting	
Total number of light fittings	9
Total number of L.E.L. fittings	8
Main Heating 1	
PCDF boiler Reference	18400 Vaillant, ecoFIT sustain 415, 89.80%
Main Heating Code	BGB Post 98 Regular condens. with auto ign.
Heat Emitter	Radiators
Heat pump age	Unknown
Flue Type	Balanced
Fuel Type	Mains gas
Fan Assisted Flue	Yes
Design flow temperature	Unknown
PCDF Heating Controls	0
Main Heating Controls	CBE Programmer, room thermostat and TRVs
PCDF Compensator	0
Percentage of Heat	100
Main Heating 2	
PCDF boiler Reference	0
Main Heating Code	
Percentage of Heat	0
Secondary Heating	
Secondary Heating Reference	
Water Heating	
Water Heating Code	HWP From the primary heating system
Hot Water Cylinder	
Hot Water Cylinder Present	Yes
Cylinder Size	Normal
Insulated	Foam
Insulation Thickness	38 mm
Cylinder Thermostat	Yes
Solar Water Heating	
Solar Water Heating	No
Waste Water Heat Recovery System	
Total Number of rooms with bath and/or shower	1
Number of rooms with mixer shower and no bath	0
Number of rooms with bath and mixer shower	0
Is WWHRs present in the property?	No / Unknown
Flue Gas Heat Recovery System	
Present	No
Photovoltaic Panel	
Photovoltaic Panel	None
Wind Turbine	
Terrain Type	Suburban
Wind turbine present?	No
Other Details	
Electricity meter type	Single
Main gas	Yes
Special Features	