Predicted Energy Assessment



182-184, Bitterne Rd W, Southampton, Hampshire, SO18 1BH

Dwelling type:
Date of assessment:
Produced by:
Total floor area:
DRRN:

Flat, Detached 04/04/2024 Kieran Mckerr 42.42 m²

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

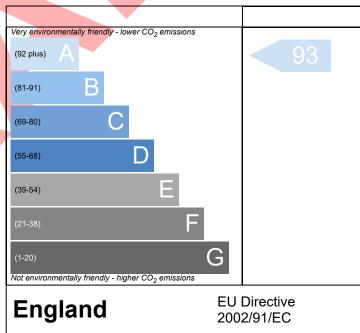
The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO2) emissions.

Very energy efficient - lower running costs (92 plus) A (81-91) B (69-80) C (55-68) (1-20) F Not energy efficient - higher running costs England EU Directive 2002/91/EC

The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills

are likely to be.

Environmental Impact (CO₂) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.

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Property Reference	2759)							Issu	ued on Da	ate	04/04/20	24
Assessment Reference	(Gas	Boiler) Flat 4 U	lpdate			Pro	p Type l	Ref					
Property		,	ˈ d W, Southampton, Han	npshire,	SO18								
SAP Rating			92 A	DE	ΞR		11.6			TER		45.04	
Environmental						< TCD	11.0	Ö		IEK		15.64	
			93 A			< TER		•		TEEE		25.45	
CO ₂ Emissions (t/year)			0.4		EE		26.1	8		TFEE		36.10	
Compliance Check			See BREL			E < TFE						27.49	
% DPER < TPER			29.32	DF	PER		59.1	2		TPER		83.64	
Assessor Details	Mr. Kiera	n Mckerr								Asses	sor ID	BA75	-0001
Client	0001, An	drew Jones											
SUMMARY FOR INPL	JT DATA FO	DR: New Buil	ld (As Designed)										
Orientation			North										
Property Tenture			2										
Transaction Type			6										
Terrain Type			Suburban										
1.0 Property Type			Flat, Detached										
Position of Flat			Mid-floor flat										
Which Floor			1										
2.0 Number of Storeys			1										
3.0 Date Built			2023										
4.0 Sheltered Sides			2										
5.0 Sunlight/Shade			Average or unknown	nwn									
6.0 Thermal Mass Parame	eter		Precise calculation										
7.0 Electricity Toriff			Standard										
7.0 Electricity Tariff	eu												
Smart electricity meter	iiilea		Yes										
Smart gas meter fitted			Yes										
7.0 Measurements					Heat	Loss P	erimete	r In	ternal l	Floor Are	a A	verage St	orey Heigh
			Ground	floor:		21.85	m		42.4	12 m²			0 m
8.0 Living Area			17.88							m²			
9.0 External Walls													
Description	Туре	Construction		(W	/m²K)		Area(m²)		Res	Shel			rea Calculatio
External Wall	Solid Wall	externally	se plaster, 210 mm brick, ins		0.14	135.00	39.10	31.73	0.00	Nor			nter Gross Are
Corridor Wall	Solid Wall	externally	se plaster, 210 mm brick, ins	ulated (0.14	135.00	11.17	9.07	1.00	Nor	e	2.10 E	nter Gross Are
9.2 Internal Walls		•										17 :	A '
Description			ruction									Kappa (kJ/m²K)
Party Wall		Dense	block, plasterboard on	dabs								75.00	52.89
10.0 External Roofs	Type	Construc	ction		,,	Value	Kanna	Grass	Nott	Shalte-	Shalfa	r Calaula	ionOnoni-
Description	Туре	Construc	Juon				Kappa kJ/m²K)	Area(m²)	Nett Area	Code	Factor		ionOpenin
External Roof 1	External Fla	at Other			(0.14	30.00	42.42	(m²) 42.42	None	0.00	Enter N Area	ett 0.00
11.1 Party Floors													
Description		Storey Index Lowest occupied	Construction Precast concrete plan	ks floor,	scree	ed, carp	eted					Kapp (kJ/m² 30.00	K) `
Party Floor 1													
		occupicu											
Party Floor 1 12.0 Opening Types Description	Data Sou		Glazing				Glazir Gap			G-value	Frame Type	Frame Facto	

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External Glazing Manufacturer W	indow Trip	Low-E Soft 0.05		0.34	0.83	0.80
13.0 Openings						
Name Opening Type Corridor Door Corridor Door	Location Corridor V		Orientation North	Area (m²) 2.10	Pit	ch
South Windows External Glazing South West Windows External Glazing			South South West	3.30 4.07		
		111	South West	4.07		
14.0 Conservatory	None			0/		
15.0 Draught Lobby	100 No.			%		
16.0 Draught Lobby	No					
17.0 Thermal Bridging 17.1 List of Bridges	User Input					
Bridge Type E2 Other lintels (including other steel lintels) E2 Other lintels (including other steel lintels) E3 Sill E3 Sill E4 Jamb E4 Jamb E20 Exposed floor (normal) E7 Party floor between dwellings (in blocks of P3 Party wall - Intermediate floor between dw (in blocks of flats)		Length 1.00 5.35 5.35 1.00 8.40 4.20 21.85 21.85 5.23	Psi Adjusted Ro	eference:		Imported No No No No No No No No No
Y-value	0.04			W/m²K		
Description	Thermoho	se				
18.0 Pressure Testing	Yes					
Designed APso	3.00			m³/(h.m²) @ 50 Pa		
Test Method	Blower Do	r				
	Blower Bo					
19.0 Mechanical Ventilation Mechanical Ventilation						
Mechanical Ventilation System Present	Yes					
Mechanical Ventilation data Type	Data Shee					
Туре		echanical ventilation with heat	recovery			
MVHR Duct Insulated	Insulated		,			
Manufacturer SFP	0.54					
Duct Type	Rigid					
MVHR Efficiency	89.60					
Wet Rooms	1					
Brand, Model	Flakt Grou					
SFP from Installer Commissioning Certif						
MVHR System Location		ited envelope (not installed exc	clusively)			
20.0 Fans, Open Fireplaces, Flues	-					
21.0 Fixed Cooling System	No					
22.0 Lighting						
No Fixed Lighting	No					
v v	Name Lighting	Efficacy 119.90	Power 100	Capacity 12000		unt 1
24.0 Main Heating 1	Database					
Percentage of Heat	100.00			%		
Database Ref. No.	18648					
Fuel Type	Mains gas					
In Winter	84.10					
				! 		
In Summer	98.90					
In Summer Model Name		ser 27 Plus				

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System Type	Combi boiler]				
Controls SAP Code	2103]				
Delayed Start Stat	No]				
Flue Type	Balanced]				
Fan Assisted Flue	Yes]				
Is MHS Pumped	Pump in unheated space	1				
Heating Pump Age	2013 or later	j				
Heat Emitter	Underfloor	j				
Underfloor Heating	Yes - Pipes in Wood	į				
Flow Temperature	Enter value	1				
Flow Temperature Value	55.00]				
Boiler Interlock	No]				
Combi boiler type	Standard Combi]]				
Combi keep hot type	None]]				
Combi keep not type	None]				
25.0 Main Heating 2	None]				
26.0 Heat Networks	None	1				
Space Community Heating	None]				
Heat Source Fuel Type Heating U	se Efficiency Percentage Of Heat Ele Heat Power Ratio	ctrical Fuel Factor Efficiency type				
Heat source 1 Heat source 2 Heat source 3 Heat source 4 Heat source 5						
28.0 Water Heating						
Water Heating	Main Heating 1]				
SAP Code	901]				
Flue Gas Heat Recovery System	Yes]				
Waste Water Heat Recovery Instantaneous System 1	No					
Waste Water Heat Recovery Instantaneous System 2	No	į				
Waste Water Heat Recovery Storage System	No	<u>.</u> 1				
Solar Panel	No	<u>,</u>]				
Water use <= 125 litres/person/day	Yes]]				
Cold Water Source	From header tank]]				
] 1				
Bath Count	0]				
28.1 Showers Description Shower Typ	e Flow Rate Rated Power([l/min] [kW]	Connected Connected To				
28.2 Flue Gas Heat Recovery System Database ID	0]				
Brand Model]				
Details]				
28.3 Waste Water Heat Recovery System		-				
	[1				
29.0 Hot Water Cylinder	None]				
In Airing Cupboard	No					
32.0 Photovoltaic Unit	Multiple Dwellings – Connected]				
Export Capable Meter?	Yes] I				
]]				
Connected To Dwelling	Yes] 1				
Diverter	No] 1				
Battery Capacity [kWh]	2.75					

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I	PV Cells k\	V p	Orientation	Elevation	Ove	rshading	FGHRS	MCS Certificate	Overshad Factor	ing	MCS Certificate Reference	Panel Manufacturer
	1.01		South	Horizontal	None	or Little		No	1.00			
(0.18		South	Horizontal	None	or Little		No	1.00			
34.0 Smal	II-scale Hy	dro			None							
Ja	an	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Recommendations

Lower cost measures None

Further measures to achieve even higher standards

Typical Cost

Typical savings per year

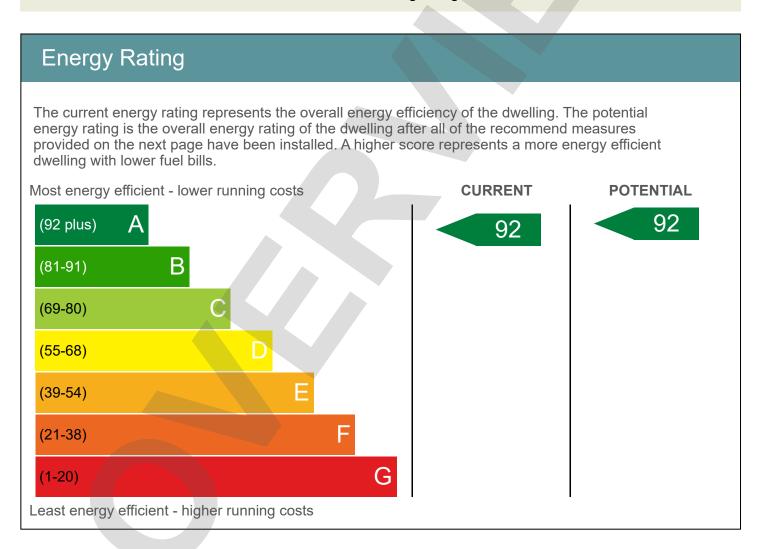
Ratings after improvement SAP rating Environmental Impact 0 0

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Dwelling Address	182-184, Bitterne Rd W, Southampton, Hampshire, SO18 1BH
Report Date	04/04/2024
Property Type	Flat, Detached
Floor Area [m ²]	42

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



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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			Energy Performance
Walls	Average thermal transmi	ttance 0.14 W/m²K		Very Good
Roof	Average thermal transmi	ttance 0.14 W/m²K		Very Good
Windows	High performance glazin	Very Good		
Main heating	Boiler and underfloor hea	Very Good		
Main heating controls	Room thermostat only	Poor		
Secondary heating	None			
Hot water	From main system	Very Good		
Lighting	Excelent lighting efficiency		Very Good	
Air tightness	Air permeability [AP50] =	: 3.0 m³/h.m² (assumed)		Good

Primary Energy use

The primary energy use for this property per year is 46 kilowatt hour (kWh) per square metre

Estimated CO₂ emissions of the dwelling

The estimated CO rating provides an indication of the dwelling's impact on the environment in terms of carbon dioxide emissions; the higher the rating the less impact it has on the environment.

The estimated CO emissions for this dwellings is:

0.4 per year

With the recommended measures the potential CO emissions could be:

per year

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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 measure	Typical Yearly Saving	Potential Rating after measure installed	Cumulative savings (per year)	Cumulative Potential Rating
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Estimated energy use and potential savings

Estimated energy cost for this property over a year

£138

Over a year you could save

£0

The estimated cost and savings show how much the average household would spend in this property for heating, lighting and hot water. It is not based on how energy is used by the people living at the property.

Contacting the assessor and the accreditation scheme

Assessor contact details					
Assessor name	Mr. Kieran Mckerr				
Assessor's accreditation number					
Email Address					

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Accreditation scheme contact details					
Accreditation scheme					
Telephone					
Email Address					

Assessment details					
Related party disclosure					
Date of assessment	04/04/2024				
Date of certificate	04/04/2024				
Type of assessment	SAP, new dwelling				

