## **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 m<sup>2</sup>

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.

(92 plus)

(81-91)

# 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

(69-80) C

Very environmentally friendly - lower CO2 emissions

Environmental Impact (CO<sub>2</sub>) Rating

(39-54) E F

**England** 

2002/91/EC

**EU Directive** 

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.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide ( $CO_2$ ) emissions. The higher the rating the less impact it has on the environment.

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Property Reference	275	9								Iss	ued on C	Date	04/04/	2024	
Assessment Reference	(Ga	s Boil	er) Flat 2 Updat	e			Prop	Type R	ef						
Property	182	-184,	Bitterne Rd W,	Southa	ampton, Hampsh	ire, SO1	8 1BH								
SAP Rating				93 A		DER		11.14			TER		15.	83	
Environmental				93 A		% DER	< TER	11111					29.		
CO <sub>2</sub> Emissions (t/year)				0.38		DFEE		24.52			TFEE		36.		
Compliance Check					BREL	% DFE	E < TFE						33.		
% DPER < TPER				33.3		DPER		56.39			TPER		84.		
Assessor Details	Mr. Kiera	n Mc	kerr								Asse	ssor ID	BΔ	75-00	nn1
Client	0001, Ar												D/ (	70 00	301
SUMMARY FOR INPL				\s De	signed)										
Orientation				North											
				2	I										
Property Tenture				6											
Transaction Type				Subu	ırhan										
Terrain Type															
I.0 Property Type  Position of Flat					Detached loor flat										
Position of Flat Which Floor				IVIIQ-T	loor flat										
				1											
2.0 Number of Storeys				2000											
3.0 Date Built				2023	<u> </u>						1				
1.0 Sheltered Sides				2							1				
5.0 Sunlight/Shade 6.0 Thermal Mass Parame					age or unknown										
5.0 Thermal wass Parame	eter			Preci	ise calculation										
7.0 Electricity Tariff				7 Ho	ur Off Peak						  -				
Smart electricity meter	fitted			Yes											
Smart gas meter fitted				Yes							ı				
7.0 Measurements						Heat	l nee Pa	erimeter	Int	ernal	Floor Ar	·02	Average	Store	ev Heid
					Ground floor		21.85 r				42 m²			2.30 r	
3.0 Living Area				17.88	3						m²				
9.0 External Walls															
Description	Туре		onstruction			(W/m <sup>2</sup> K)			(m²)	Res		elter	Openings		Type
External Wall	Solid Wall	ex	ternally		mm brick, insulated		135.00	39.10	31.73	0.00		one	7.37		r Gross Ar
Corridor Wall	Solid Wall		olid wall : dense pla: kternally	ster, 210	0 mm brick, insulated	0.14	135.00	11.17	9.07	1.00	No	one	2.10	Ente	r Gross Aı
9.2 Internal Walls			C	•									<b>V</b> =		Ares (
Description			Constructi		sterboard on data								<b>Kap</b> ( <b>kJ/m</b> 75.0	²K)	Area (n 52.89
Party Wall  10.1 Party Ceilings			Delise NIOC	n, pias	sterboard on dab									,,,	J2.08
Description			Constructi	on									Kap (kJ/m		Area (n
Party Ceiling 1			Other										30.0		42.42
I1.0 Heat Loss Floors	<b></b>		04	_					(- <b>1</b>				OL "	14	•
Description  Exposed Floor	Type Exposed Floor	r_	Storey Index		struction			(W/ı	'alue m²K) 13	Sh	elter Code			Kapp (kJ/m²) 120.0	oa Area ( <b>°K)</b> 00 42.4
	Solid	-	Lowest occupied	Othe				0.	13		None		1.00	120.0	υ 42.4
12.0 Opening Types			_		Clarina			Clazina	ı Filli	na (	G-value	Fram	no Ers	ıme	U Valı
Description	Data Sou	rce	Туре		Glazing			Glazing Gap	Typ		3-value	Туре		ctor	(W/m²

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Name Corridor Door South Windows South West Windows	Opening Type Corridor Door External Glazing External Glazing	Location Corridor Wall External Wall External Wall		Orientation North South South West	Area (m²) 2.10 3.30 4.07	Pitch
14.0 Conservatory		None			7	
15.0 Draught Proofing		100			<b>]</b> %	
16.0 Draught Lobby		No			j	
17.0 Thermal Bridging 17.1 List of Bridges		User Input			]	
Bridge Type E2 Other lintels (including of E2 Other lintels (including of E3 Sill) E3 Sill E4 Jamb E4 Jamb E20 Exposed floor (normal) E7 Party floor between dwe P3 Party wall - Intermediate (in blocks of flats)	other steel lintels)  other steel lintels)  other steel lintels)	Source Type	Length 1.00 5.35 5.35 1.00 8.40 4.20 21.85 21.85 5.23	Psi Adjusted I	Reference:	Imported No
Y-value		0.04			W/m²K	
Description		Thermohouse				
18.0 Pressure Testing		Yes			7	
Designed AP <sub>50</sub>		3.00			 m³/(h.m²) @ 50 Pa	
Test Method		Blower Door			]	
19.0 Mechanical Ventilation						
Mechanical Ventilation						
Mechanical Ventilation	n System Present	Yes				
Mechanical Ventilation	n data Type	Data Sheet				
Туре		Balanced mechanic	al ventilation with h	eat recovery		
MVHR Duct Insulated	I	Insulated Ducts				
Manufacturer SFP		0.54				
Duct Type		Rigid				
MVHR Efficiency		89.60				
Wet Rooms		1				
Brand, Model		Flakt Group				
SFP from Installer Co	mmissioning Certificate	No				
MVHR System Location	on	Outside heated env	elope (not installed	exclusively)		
20.0 Fans, Open Fireplaces, F	Flues					
21.0 Fixed Cooling System		No				
22.0 Lighting						
No Fixed Lighting		No Name Lighting 1	Efficacy 100.00	Power 100	Capacity 10000	Count 1
24.0 Main Heating 1		Database			]	
Description		Air Source Heat Pu	mp			
Percentage of Heat		100.00			%	
Database Ref. No.		18648				
Fuel Type		Mains gas				
In Winter		84.10				
In Summer		98.90				
Model Name		IC Economiser 27 F	Plus			
Manufacturer		ATAG Verwarming I	Nederland			
System Type		Combi boiler			7	

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Controls SAP Code	2103	
Delayed Start Stat	No	
Boiler Compensator	200073	
Flue Type	Balanced	
Fan Assisted Flue	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Underfloor	
Underfloor Heating	Yes - Pipes in thin screed	
Flow Temperature	Enter value	
Flow Temperature Value	55.00	
Boiler Interlock	No	
Combi boiler type	Standard Combi	
Combi keep hot type	None	
		<u> </u>
25.0 Main Heating 2	None	
26.0 Heat Networks	None	
Space Community Heating		
Heat Source Fuel Type Heating Us  Heat source 1 Heat source 2 Heat source 3 Heat source 4	se Efficiency Percentage Of Heat Heat Elec Heat Power Ratio	ctrical Fuel Factor Efficiency type
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	
•	No	
Waste Water Heat Recovery Instantaneous System 2		
Waste Water Heat Recovery Storage System	No	 
Solar Panel	No	 
Water use <= 125 litres/person/day	Yes	 
Cold Water Source	From header tank	] <b>!</b>
Bath Count	0	1
28.1 Showers  Description  Shower Type	Flow Rate Rated Power C [l/min] [kW]	Connected Connected To
28.2 Flue Gas Heat Recovery System		ı
Database ID	0	 
Brand Model		
Details		<u> </u>
28.3 Waste Water Heat Recovery System		
29.0 Hot Water Cylinder	None	
In Airing Cupboard	No	
32.0 Photovoltaic Unit	Multiple Dwellings – Connected	
Export Capable Meter?	Yes	
Connected To Dwelling	Yes	
Diverter	No	
Battery Capacity [kWh]	2.75	

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I	PV Cells k\	<b>V</b> 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

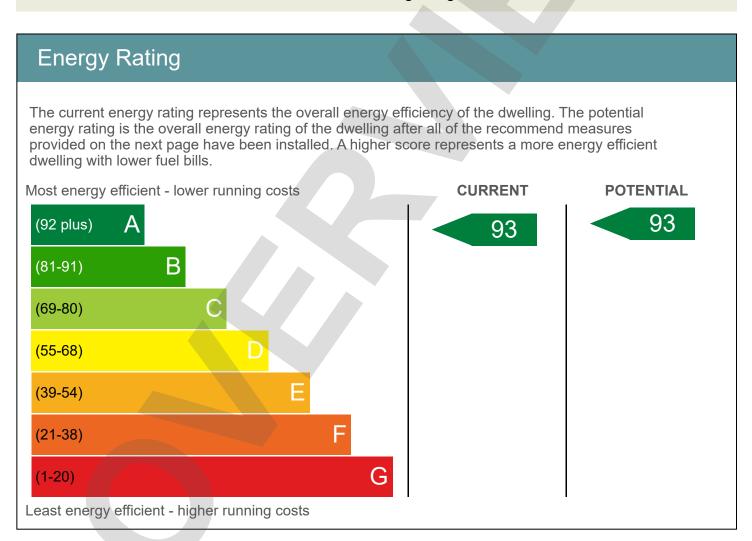
Ratings after improvement SAP rating Environmental Impact 0 0

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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 <sup>2</sup> ]	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
Floor	Average thermal transmi	ttance 0.12 W/m²K		Very Good
Windows	High performance glazin	Very Good		
Main heating	Boiler and underfloor hea	Good		
Main heating controls	Room thermostat only	Average		
Secondary heating	None			
Hot water	From main system	Very Good		
Lighting	Excelent lighting efficience	Very Good		
Air tightness	Air permeability [AP50] =	Good		

#### Primary Energy use

The primary energy use for this property per year is 44 kilowatt hour (kWh) per square metre

#### Estimated CO<sub>2</sub> 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

£120

Over a year you could save

£n

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			

