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 44.31 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.

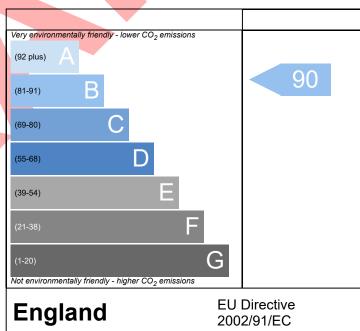
The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO2) emissions.

Very energy efficient - lower running costs (92 plus) A (81-91) B (69-80) C (55-68) D (21-38) F (1-20) G Not energy efficient - higher running costs England 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.

SAP 10 Online 2.13.5 Page 1 of 1



Property Reference	27	' 59								lss	ued on D	ate	04/04/202	24
Assessment Reference			iler) Flat 5 U	ndate			Pr	ор Туре	Ref	.00	ou on D		U-1/U-1/20/	- r
Property	(-			•	hampton, Hamps	hire SC		ор .уро	1101					
	10	2 10-1,	, Bitterne re			11110, 00	710 1511							
SAP Rating				90	В	DER		16.	07		TER		17.43	
Environmental				90	В	% DE	R < TER	₹					7.80	
CO ₂ Emissions (t/year)				0.5	6	DFEE		34.	14		TFEE		45.65	
Compliance Check				See	e BREL	% DF	EE < TF	EE					25.21	
% DPER < TPER				10.	97	DPEF	₹	82.	94		TPER		93.16	
Assessor Details	Mr. Kie	ran Mo	ckerr								Asses	sor ID	BA75-	0001
Client	0001, A													
SUMMARY FOR INPL				d (As D	esianed)									
		0. t.	non Ban								l			
Orientation				Eas	ST						 			
Property Tenture				2							 			
Transaction Type				6] 			
Terrain Type					ourban] I			
1.0 Property Type					t, Detached] I			
Position of Flat				Top	-floor flat						 			
Which Floor				1							 			
2.0 Number of Storeys				1							1			
3.0 Date Built				202	23						i			
4.0 Sheltered Sides				2										
5.0 Sunlight/Shade				Ave	erage or unknowr	1								
6.0 Thermal Mass Parame	eter			Pre	cise calculation									
7.0 Electricity Tariff				7 H	lour Off Peak									
Smart electricity meter	fitted			No										
Smart gas meter fitted				No										
7.0 Measurements														
7.0 Measurements					0 15			Perimete	er In		Floor Are	a A		rey Height
					Ground floo	or:	28.00	0 m		44.	31 m²		2.30) m
8.0 Living Area				16.	44						m²			
9.0 External Walls														
Description	Туре		Construction			(W/m²l		K) Area(m ²		Res			-	ea Calculation Type
External Wall	Solid Wall	е	externally		210 mm brick, insulate		135.00		35.08	0.00	No			nter Gross Area
Corridor Wall	Solid Wall		Solid wall : dens externally	se plaster, 2	210 mm brick, insulate	ed 0.14	135.00	0 19.21	17.11	1.00	No	ne	2.10 Er	nter Gross Area
9.2 Internal Walls														
Description			Const	ruction									Kappa (kJ/m²K)	Area (m²)
Party Wall			Dense	block, pla	asterboard on da	bs							75.00	47.75
10.0 External Roofs					·									
Description	Туре		Construc	tion				Kappa (kJ/m²K)	Gross Area(m²)	Nett Area		Shelter Factor		onOpening
	External	Flat	Other				0.14	30.00	44.31	(m²) 44.31		0.00	Enter Ne	ett 0.00
External Roof 1	Roof													
External Roof 1 11.1 Party Floors	Roof													
	Roof		Storey	Constru	ıction								Kappa	
11.1 Party Floors	Roof		Storey Index Lowest occupied		uction concrete planks	floor, scr	eed, car	peted					Kappa (kJ/m²h 30.00	() ·
11.1 Party Floors Description Party Floor 1 12.0 Opening Types			Index Lowest occupied		concrete planks	floor, sci	reed, car	-					(kJ/m²ł 30.00	42.42
11.1 Party Floors Description Party Floor 1	Roof Data So	ource	Index Lowest			floor, sci	reed, car	peted Glazi Gaj			G-value	Frame Type	(kJ/m²ł 30.00	42.42 U Value
11.1 Party Floors Description Party Floor 1 2.0 Opening Types			Index Lowest occupied	Precast	concrete planks	floor, sci	reed, car	Glazi			G-value		(kJ/m²h 30.00 Frame	42.42 U Valu

SAP 10 Online 2.13.5 Page 1 of 4



External Glazing M	anufacturer Window	Triple Low	-E Soft 0.05		0.34	0.83	0.80
Corridor Door North Windows North West Windows	Opening Type Corridor Door External Glazing External Glazing	Location Corridor Wall External Wall External Wall		Orientation East North North West	Area (m²) 2.10 3.31 3.40	Pit	ch
West Windows	External Glazing	External Wall		West	3.40		
14.0 Conservatory		None					
15.0 Draught Proofing		100			%		
16.0 Draught Lobby		No					
17.0 Thermal Bridging		User Input					
17.1 List of Bridges Bridge Type E2 Other lintels (including oth E2 Other lintels (including oth E3 Sill E3 Sill E4 Jamb E4 Jamb E20 Exposed floor (normal) E7 Party floor between dwelli P3 Party wall - Intermediate f (in blocks of flats)	ner 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	Reference:		Imported No No No No No No No No No
Y-value		0.04			W/m²K		
Description		Thermohouse			vv/iii IX		
					7		
18.0 Pressure Testing		Yes]		
Designed APso		3.00			m³/(h.m²) @ 50 Pa		
Test Method		Blower Door					
19.0 Mechanical Ventilation Mechanical Ventilation							
Mechanical Ventilation	System Present	Yes					
Mechanical Ventilation		Data Sheet			Ī		
Туре		Balanced mecha	anical ventilation with h	eat recovery	Ī		
MVHR Duct Insulated		Insulated Ducts			ī		
Manufacturer SFP		0.54			Ī		
Duct Type		Rigid					
MVHR Efficiency		0.90					
Wet Rooms		1					
Brand, Model		Flakt Group					
SFP from Installer Com	missioning Certificate	No			7		
MVHR System Location	1	Outside heated	envelope (not installed	exclusively)			
20.0 Fans, Open Fireplaces, Flu	ıes						
21.0 Fixed Cooling System		No					
22.0 Lighting							
No Fixed Lighting		No Name Lighting 1	Efficacy 120.00	Power 100	Capacity 12000		unt 1
24.0 Main Heating 1		Database	120.00		7		-
Percentage of Heat		100.00			_ │ %		
Database Ref. No.		18648			^~ 		
Fuel Type		Mains gas					
In Winter					_ 		
		84.10			_ 		
In Summer		98.90	N7 DI		_ _		
Model Name		IC Economiser 2	1 Plus		_		

SAP 10 Online 2.13.5 Page 2 of 4



Manufacturer	ATAG Verwarming Nederland	
System Type	Combi boiler	
Controls SAP Code	2103	
Delayed Start Stat	No	
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	j
25.0 Main Heating 2	None	
26.0 Heat Networks	None	1
Space Community Heating		I
Heat Source Fuel Type Heating U	se Efficiency Percentage Of Heat Heat Elec Heat Power	ctrical Fuel Factor Efficiency type
Heat source 1	Ratio	
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	
Waste Water Heat Recovery Storage System	No	
Solar Panel	No	
Water use <= 125 litres/person/day	Yes	
Cold Water Source	From header tank	
Bath Count	0	
28.1 Showers		·
Description Shower Typ	e Flow Rate Rated Power ([l/min] [kW]	Connected To
28.2 Flue Gas Heat Recovery System		
Database ID	0	
Brand Model		
Details		
28.3 Waste Water Heat Recovery System		
29.0 Hot Water Cylinder	None	
In Airing Cupboard	No	j
32.0 Photovoltaic Unit	Multiple Dwellings – Connected]
		1 1
Export Capable Meter?	Yes	
Connected To Dwelling	Yes	
Diverter	No	

SAP 10 Online 2.13.5 Page 3 of 4



Battery Cap	acity [kWh]			2.75]		
PV C	ells kWp	Orientation	Elevation	Oversh	ading	FGHRS	MCS Ce	ertificate Ove Fac	rshading tor	MCS Certificate Reference	Panel Manufacturer
1.01 0.18		South South	Horizontal Horizontal	None O None O			No No	1.00 1.00		Reference	
34.0 Small-sca	le Hydro			None							
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	g Sep	Oc	t Nov	Dec

Recommendations

Lower cost measures

None

Further measures to achieve even higher standards

Typical Cost Typical savings per year

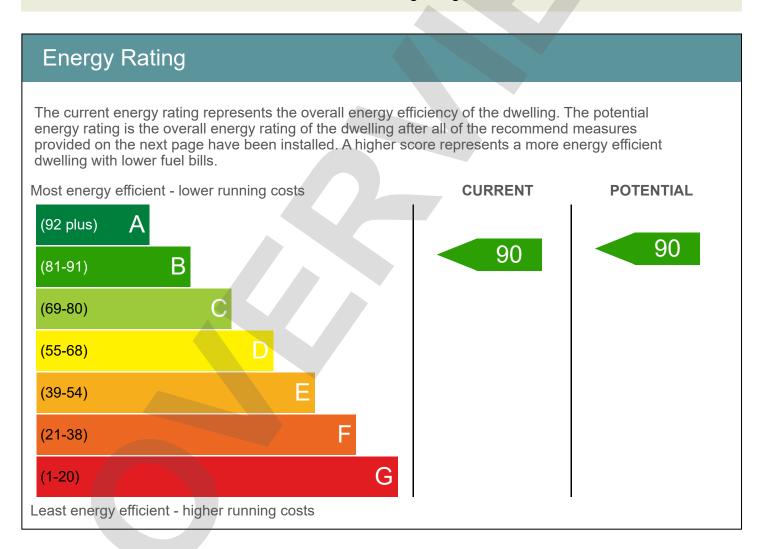
Ratings after improvement SAP rating Environmental Impact 0 0

SAP 10 Online 2.13.5 Page 4 of 4



Dwelling Address	182-184, Bitterne Rd W, Southampton, Hampshire, SO18 1BH
Report Date	04/04/2024
Property Type	Flat, Detached
Floor Area [m ²]	44

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



SAP 10 Online 2.13.5 Page 1 of 4



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 0.13 W/m²K		Very Good			
Roof	Average thermal transmi	Average thermal transmittance 0.14 W/m²K					
Windows	High performance glazin	Very Good					
Main heating	Boiler and underfloor hea	Good					
Main heating controls	Room thermostat only	Poor					
Secondary heating	None						
Hot water	From main system	Very Good					
Lighting	Excelent lighting efficience	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 64 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: **0.6** per year

With the recommended measures the potential CO emissions could be: per year

SAP 10 Online 2.13.5 Page 2 of 4



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
---------------------	-----------------------------	--	-------------------------------	-----------------------------------

Estimated energy use and potential savings

Estimated energy cost for this property over a year

£174

Over a year you could save

 ${\tt £0}$

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					

SAP 10 Online 2.13.5 Page 3 of 4



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				

