

Predicted Energy Assessment



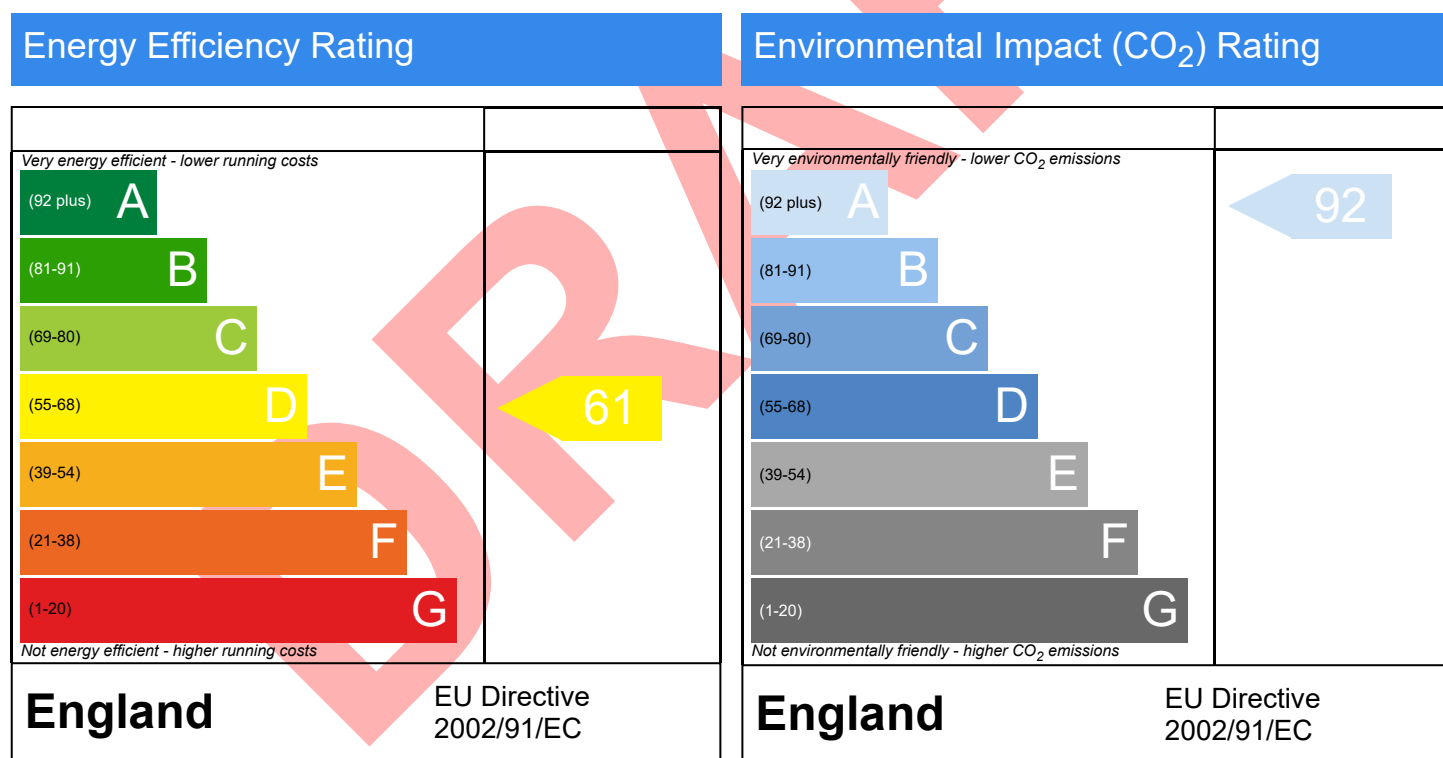
Apartment 14, Victoria Buildings, 9-13 Silver Street, Bury,
Greater Manchester, BL9 0EU

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

Flat, End-Terrace
31/05/2024
Samuel Carr
43.72 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.



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 (CO₂) emissions. The higher the rating the less impact it has on the environment.

Summary for Input Data

Property Reference	Apartment 14		Issued on Date	31/05/2024
Assessment Reference	Apt 14 (As Designed)	Prop Type Ref		
Property	Apartment 14, Victoria Buildings, 9-13 Silver Street, Bury, Greater Manchester, BL9 0EU			

SAP Rating	61 D	DER		TER	
Environmental	92 A	% DER < TER			N/A
CO ₂ Emissions (t/year)	0.54	DFEE		TFEE	
Compliance Check	See BREL	% DFEE < TFEE			
% DPER < TPER		DPER		TPER	

Assessor Details	Mr. Samuel Carr	Assessor ID	DC16-0001
Client	Mullins Associates, Colin Mullins		

SUMMARY FOR INPUT DATA FOR: Conversion (As Designed)

Orientation	East
Property Tenure	ND
Transaction Type	6
Terrain Type	Suburban
1.0 Property Type	Flat, End-Terrace
Position of Flat	Top-floor flat
Which Floor	2
2.0 Number of Storeys	1
3.0 Date Built	2024
4.0 Sheltered Sides	3
5.0 Sunlight/Shade	Average or unknown
6.0 Thermal Mass Parameter	Precise calculation
7.0 Electricity Tariff	Standard
Smart electricity meter fitted	Yes
Smart gas meter fitted	Yes

7.0 Measurements		Heat Loss Perimeter	Internal Floor Area	Average Storey Height
	Ground floor:	5.65 m	43.72 m ²	2.50 m
8.0 Living Area	36.07			m ²

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Res	Shelter	Openings	Area Calculation Type
External Wall 1	Cavity Wall	Cavity wall; plasterboard on dabs or battens, lightweight aggregate block, filled cavity, any outside structure	0.30	110.00	14.12	8.30	0.00	None	5.82	Enter Gross Area

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Area (m ²)	Shelter Res	Shelter
Timber Party (Double)	Solid Wall	Double plasterboard on both sides, twin timber f rame with/without sheathing board	0.00	20.00	9.80		None
Block Party	Solid Wall	Single plasterboard on dabs both sides, lightweight aggregate blocks, cavity or cavity fill	0.00	110.00	63.75		None
Timber (Single)	Solid Wall	Other	0.00	0.00	10.50		None

Description	Construction	Kappa (kJ/m ² K)	Area (m ²)
Timber Partitions	Plasterboard on timber frame	9.00	54.95

Description	Type	Construction	U-Value (W/m ² K)	Kappa (kJ/m ² K)	Gross Area(m ²)	Nett Area (m ²)	Shelter Code	Shelter Factor	Calculation Type	Openings
External Flat Roof	External Flat Roof	Plasterboard, insulated flat roof	0.16	9.00	43.72	43.72	None	0.00	Enter Gross Area	0.00

10.1 Party Ceilings

Summary for Input Data

Description	Construction	Kappa (kJ/m²K)	Area (m²)
Party Ceiling	Concrete floor slab, carpeted	100.00	11.54

11.1 Party Floors

Description	Storey Index	Construction	Kappa (kJ/m²K)	Area (m²)
Party Floor	Lowest occupied	Concrete floor slab, carpeted	100.00	43.72

12.0 Opening Types

Description	Data Source	Type	Glazing	Glazing Gap	Filling Type	G-value	Frame Type	Frame Factor	U Value (W/m²K)
Windows	Manufacturer	Window	Double glazed			0.76		0.70	1.40

13.0 Openings

Name	Opening Type	Location	Orientation	Area (m²)	Pitch
Windows Right	Windows	External Wall 1	East	5.82	

14.0 Conservatory

None

15.0 Draught Proofing

100 %

16.0 Draught Lobby

No

17.0 Thermal Bridging

Default

Y-value 0.20 W/m²K

18.0 Pressure Testing

No

Test Method Blower Door

19.0 Mechanical Ventilation

Mechanical Ventilation

Mechanical Ventilation System Present Yes

Approved Installation Yes

Mechanical Ventilation data Type Database

Type Balanced mechanical ventilation with heat recovery

MV Reference Number 500196

Configuration 1

Manufacturer SFP 0.75

Duct Type Rigid

MVHR Efficiency 90.00

Wet Rooms 1

SFP from Installer Commissioning Certificate No

MVHR System Location Inside heated envelope (installed exclusively)

Duct Installation Specification Level 1

19.1 Mechanical extract ventilation - Decentralised

SFP	Fan/Room Type	Count
0.14	In Room Fan Kitchen	1
0.11	In Room Fan Other Wet Room	1
0.00	In Duct Fan Kitchen	0
0.00	In Duct Fan Other Wet Room	0
0.08	Through Wall Fan Kitchen	0
0.08	Through Wall Fan Other Wet Room	0

20.0 Fans, Open Fireplaces, Flues

21.0 Fixed Cooling System

No

22.0 Lighting

No Fixed Lighting No

Name	Efficacy	Power	Capacity	Count
Example Lighting	85.00	5	425	30

24.0 Main Heating 1

SAP table

Summary for Input Data

Percentage of Heat	100.00	%
Fuel Type	Electricity	
SAP Code	192	
In Winter	100.00	
In Summer	100.00	
Controls SAP Code	2106	
Delayed Start Stat	Yes	
Is MHS Pumped	Pump in heated space	
Heating Pump Age	2013 or later	
Heat Emitter	Radiators	
Boiler Interlock	Yes	

25.0 Main Heating 2

26.0 Heat Networks

Heat Source	Fuel Type	Heating Use	Efficiency	Percentage Of Heat	Heat	Heat Power Ratio	Electrical	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	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 header tank
Bath Count	0

28.1 Showers

Description	Shower Type	Flow Rate [l/min]	Rated Power [kW]	Connected	Connected To
-------------	-------------	-------------------	------------------	-----------	--------------

28.3 Waste Water Heat Recovery System

29.0 Hot Water Cylinder

Insulation Type	Internal Store	
Cylinder Volume	Measured Loss	
Loss	125.00	L
In Airing Cupboard	1.64	kWh/day
	No	

34.0 Small-scale Hydro

None												
Jan	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
		0	0
		0	0