

PREDICTED ENERGY ASSESSMENT



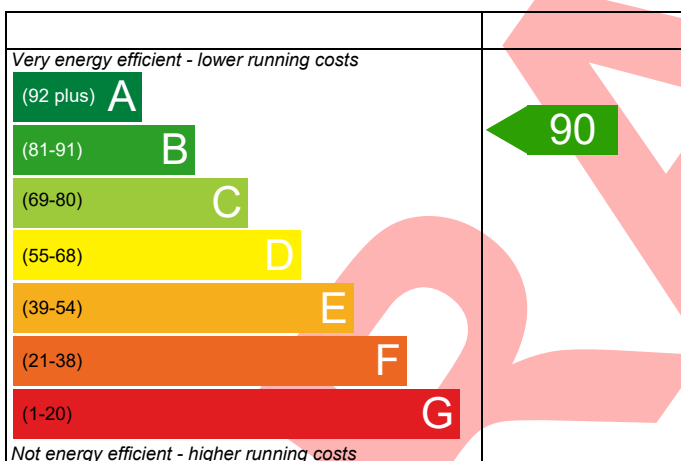
Wood View, Shenton Lane,
Nuneaton,
CV13 0AA

Dwelling type: Bungalow, Detached
Date of assessment: 16/08/2024
Produced by: Matthew Tucker
Total floor area: 74.34 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 SAP2012 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.

Energy Efficiency Rating

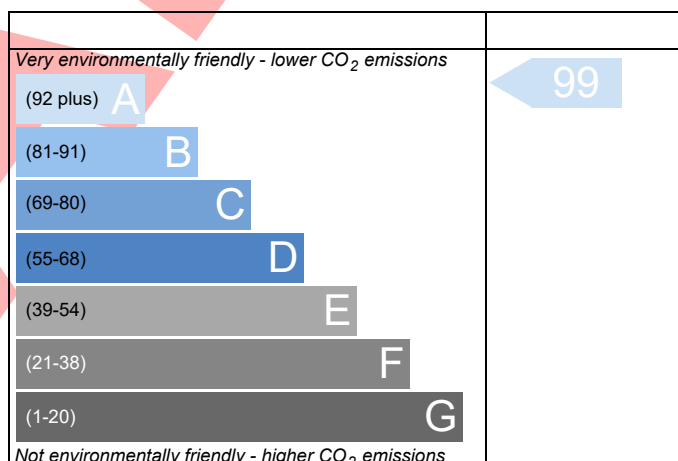


England

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



England

EU Directive
2002/91/EC

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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BUILDING REGULATION COMPLIANCE

Calculation Type: New Build (As Designed)



Property Reference	C24103	Issued on Date	16/08/2024
Assessment Reference	001	Prop Type Ref	
Property	Wood View, Shenton Lane, Nuneaton, CV13 0AA		
SAP Rating	90 B	DER	4.09
Environmental	99 A	% DER<TER	82.36
CO ₂ Emissions (t/year)	0.10	DFEE	69.38
General Requirements Compliance	Pass	% DFEE<TFEE	0.21
Assessor Details	Mr. Matthew Tucker, Climat BCT Limited, Tel: 07835036127, matt@climat-bct.com		Assessor ID
Client	AX85-0001		

SUMMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Bulk LPG		
Fuel factor	1.06 (LPG)		
Target Carbon Dioxide Emission Rate (TER)	23.19	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	4.09	kgCO ₂ /m ²	Pass
	-19.10 (-82.4%)	kgCO ₂ /m ²	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	69.53	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DFEE)	69.38	kWh/m ² /yr	
	-0.1 (-0.1%)	kWh/m ² /yr	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.28 (max. 0.30)	0.28 (max. 0.70)	Pass
Floor	0.16 (max. 0.25)	0.16 (max. 0.70)	Pass
Roof	0.14 (max. 0.20)	0.20 (max. 0.35)	Pass
Openings	1.40 (max. 2.00)	1.40 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals	8.00 (design value)	m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0	m ³ /(h.m ²) @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency

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BUILDING REGULATION COMPLIANCE

Calculation Type: New Build (As Designed)



Main heating system

Boiler system with radiators or underfloor - Bulk LPG
Data from database
Potterton Gold Combi 28 HE LPG
Combi boiler
Efficiency: 91.0% SEDBUK2009
Minimum: 88.0%

Pass

Secondary heating system

None

5 Cylinder insulation

Hot water storage

No cylinder

6 Controls

Space heating controls

Programmer, room thermostat and TRVs

Pass

Hot water controls

No cylinder

Boiler interlock

Yes

Pass

7 Low energy lights

Percentage of fixed lights with low-energy fittings

100

%

Minimum

75

%

Pass

8 Mechanical ventilation

Not applicable

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Midlands)

Slight

Pass

Based on:

Overshading

Average

Windows facing North East

3.47 m², No overhang

Windows facing South East

5.22 m², No overhang

Windows facing South West

1.77 m², No overhang

Windows facing North West

4.23 m², No overhang

Air change rate

3.00 ach

Blinds/curtains

None

Criterion 4 – Building performance consistent with DER and DFEE rate

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals

8.00 (design value)

m³/(h.m²) @ 50 Pa

Maximum

10.0

m³/(h.m²) @ 50 Pa

Pass

10 Key features

Roof U-value

0.09

W/m²K

Thermal bridging y-value

0.026

W/m²K

Photovoltaic array

4.05

kW

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RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£79	A 93	A 101	Recommended
Photovoltaic			0	0	Already installed
Wind turbine			0	0	Not applicable
Totals	£4,000 - £6,000	£79	A 93	A 101	

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