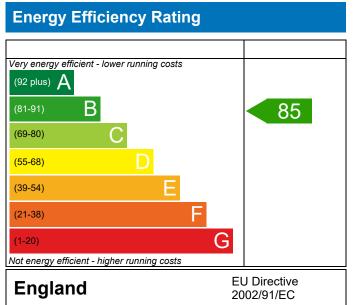


Plot 189, Rogerson Gardens, Preston, PR3 Dwelling type: Date of assessment: Produced by: Total floor area: DRRN:

House, Mid-Terrace 29/04/2022 Hazel Black 86.02 m² 5021-2904-2524

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 (CO_2) 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.

Very environmentally friendly - lower CO₂ emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (1-20) G Not environmentally friendly - higher CO₂ emissions England EU Directive 2002/91/EC

Environmental Impact (CO₂) Rating

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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BUILDING REGULATION COMPLIANCE Calculation Type: New Build (As Designed)



Property Reference Plot 189 T52 MT	Issued on Date 29/				29/04/2022		
Assessment 1	Prop Type Ref						
Reference]		
Property Plot 189, Rogerson Garde	ens, Preston, P	R3					
SAP Rating	85 B	DER	14.99	TER	16.46		
Environmental	88 B	% DER <ter< th=""><th></th><th>8.95</th><th></th></ter<>		8.95			
CO ₂ Emissions (t/year)	1.17	DFEE	36.50 TFEE		41.77		
General Requirements Compliance	Pass	% DFEE <tfee< th=""><th></th><th></th></tfee<>					
Assessor Details Ms. Hazel Black, Hazel Black,	Assessor Details Ms. Hazel Black, Hazel Black, Tel: 01582 544250, hazelb@ee-ltd.co.uk Assessor ID M003-0001						
Client							
SUMARY FOR INPUT DATA FOR New Build (As De	signed)						
Criterion 1 – Achieving the TER and TFEE rate							
1a TER and DER							
Fuel for main heating	Mains ga	Mains gas					
Fuel factor	1.00 (ma	1.00 (mains gas)					
Target Carbon Dioxide Emission Rate (TER)	16.46	16.46					
Dwelling Carbon Dioxide Emission Rate (DER)	14.99			kgCO ₂ /m ²	Pass		
	-1.47 (-8	.9%)		kgCO ₂ /m ²			
<u>1b TFEE and DFEE</u>							
Target Fabric Energy Efficiency (TFEE)		41.77 k ¹					
Dwelling Fabric Energy Efficiency (DFEE)	36.50		kWh/m²/yr				
	-5.3 (-12	.7%)		kWh/m²/yr	Pass		
Criterion 2 – Limits on design flexibility							
Limiting Fabric Standards							
2 Fabric U-values							
Element Aver	0		ghest				
	(max. 0.30)))	Pass		
	. ,	max. 0.20) -			Pass		
	(max. 0.25) (max. 0.20)	max. 0.25) 0.13 (max. 0.70) max. 0.20) 0.11 (max. 0.35)			Pass Pass		
	(max. 0.20) (max. 2.00)		11 (max. 0.33)		Pass		
2a Thermal bridging	(11107. 2.00)	1	fi (1107. 3.30	,	1 435		
Thermal bridging calculated from linear the	ormal transmitt	ances for each iun	ction				
3 Air permeability		ances for each juli	0001				
Air permeability at 50 pascals	5 01 (dec	sign value)]	m³/(h.m²) @ 50 Pa			
Maximum	5.01 (design value) 10.0			$m^{3}/(h.m^{2}) @ 50 Pa$ Pass			
Limiting System Efficiencies	10.0				1 435		
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 - Data from database	- Mains gas	Pass	
	Ideal LOGIC COMBI ESP1 35			
	Combi boiler			
	Efficiency: 89.6% SEDBUK2009			
	Minimum: 88.0%]		
Secondary heating system	None	[
5 Cylinder insulation		r		
Hot water storage	No cylinder			
<u>6 Controls</u>				
Space heating controls	Time and temperature zone control		Pass	
Hot water controls	No cylinder			
Boiler interlock	Yes		Pass	
7 Low energy lights				
Percentage of fixed lights with low-energy	100	%		
fittings				
Minimum	75	%	Pass	
8 Mechanical ventilation				
Not applicable				
Criterion 3 – Limiting the effects of heat gains in su	nmer			
9 Summertime temperature				
Overheating risk (West Pennines (England))	Not significant		Pass	
Based on:				
Overshading	Average			
Windows facing South East	4.89 m ² , No overhang			
Windows facing North West	4.10 m ² , No overhang			
Air change rate	4.00 ach			
Blinds/curtains	Dark-coloured curtain or roller blind, closed 100% of daylight			
	hours			
Criterion 4 – Building performance consistent with				
Party Walls				
Туре	U-value			
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass	
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals		³ /(h.m ²) @ 50 Pa		
Maximum	10.0 m ³	³/(h.m²) @ 50 Pa	Pass	
<u>10 Key features</u>		_		
Party wall U-value	0.00	W/m ² K		
Roof U-value	0.11	W/m²K		
Door U-value	1.00	W/m²K		

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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	£25	B 86	B 90	Recommended
Photovoltaic	£3,500 - £5,500	£332	A 97	A 99	Recommended
Wind turbine			0	0	Not applicable
Totals	£7,500 - £11,500	£357	A 97	A 99	

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