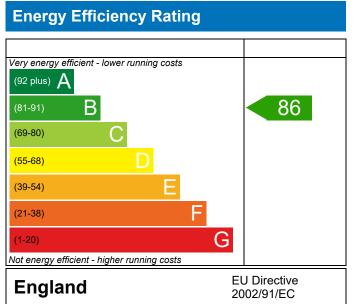


397, 3 Bed, K, WC, B Dwelling type:HouseDate of assessment:25/01/Produced by:KatarzTotal floor area:82.76DRRN:6092-7

House, Mid-Terrace 25/01/2023 Katarzyna Gotlib 82.76 m² 6092-7945-7213

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.

Environmental Impact (CO2) Rating Very environmentally friendly - lower CO2 emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not environmentally friendly - higher CO2 emissions 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 (CO_2) emissions. The higher the rating the less impact it has on the environment.

This report has been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

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



roperty	397, 3 Bed, K, WC, B						
AP Rating			86 B	DER	14.41	TER	16.36
Environmental			89 B	% DER <ter< th=""><th></th><th>11.94</th><th></th></ter<>		11.94	
CO₂ Emissions (t/year)			1.03	DFEE	33.19	TFEE	42.11
General Requirements Compliance			Pass % DFEE <tfee< td=""><td>21.18</td><td></td></tfee<>			21.18	
	rs. Katarzyna Gotlib, k t.gotlib@aessc.co.uk	(atarzyna	na Gotlib, Tel: 01884 242 050, Assessor ID			Z852-000	
Client Re	edrow, Redrow						
UMARY FOR INPUT DA	ATA FOR New Build (#	s Design	ed)				
riterion 1 – Achieving	the TER and TFEE rate	9					
a TER and DER							
Fuel for main heating			Mains gas				
Fuel factor			1.00 (ma	ains gas)			
Target Carbon Dioxide Emission Rate (TER)			16.36			kgCO ₂ /m ²	
Dwelling Carbon Dic	oxide Emission Rate (D	ER)	14.41			kgCO ₂ /m ²	Pass
			-1.95 (-1	.1.9%)		kgCO ₂ /m ²	
b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE)			42.11			kWh/m²/yr	
			33.19			kWh/m²/yr	
vitavian 2 Linnita an a	design flevikility		-8.9 (-21	1%)		kWh/m²/yr	Pass
riterion 2 – Limits on o							
Limiting Fabric Stan	aaras						
2 Fabric U-values							
Element		Average	0.00)		Highest		
External wall 0.27 (m			, , , , , , , , , , , , , , , , , , , ,			0)	Pass
Party wall 0.00 (ma		,			0)	Pass	
Floor 0.14 (ma Roof 0.11 (ma		0.14 (ma	, , , , , , , , , , , , , , , , , , ,				Pass Pass
·		1.22 (ma	, , , ,				
2a Thermal bridging	7	1.22 (110)	. 2.007		1.24 (110.3.3)	0)	1 435
	calculated from linea	ar therma	l transmit	tances for each	iunction		
<u>3 Air permeability</u>					Janotion		
	at 50 pascals		5 01 (de	sign value)		m³/(h.m²) @ 50 Pa	
Air permeability at 50 pascals Maximum			5.01 (design value) 10.0			$m^{3}/(h.m^{2}) @ 50 Pa$ Pass	
maximum			10.0				1 435

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

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



Main heating system	Boiler system with radiators or under Data from database Ideal LOGIC COMBI ESP1 30 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	floor - Mains gas	Pass
Secondary heating system	None		
5 Cylinder insulation			
Hot water storage	No cylinder		
6 Controls			
	Drogrammer, recent thermestat and TI		Dace
Space heating controls Hot water controls	Programmer, room thermostat and Th	7.4.2	Pass
Boiler interlock	No cylinder Yes		Pass
7 Low energy lights	165		F855
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 su	mmer		
9 Summertime temperature			
Overheating risk (Severn Valley)	Not significant		Pass
Based on:			
Overshading	Average		
Windows facing South East	8.22 m ² , No overhang		
Windows facing North West	4.76 m ² , No overhang		
Air change rate	0.00 ach		
Blinds/curtains	None		
Criterion 4 – Building performance consistent with	DER and DFEE rate		
Party Walls			
Туре	U-value		
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass
Air permeability and pressure testing			
<u>3 Air permeability</u>			
Air permeability at 50 pascals	5.01 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass
10 Key features			
Party wall U-value	0.00	W/m²K	
Roof U-value	0.11		
Door U-value	1.10	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			0	0	Cancelled by user
Photovoltaic			0	0	Cancelled by user
Wind turbine			0	0	Not applicable
Totals	£0	£0	B 86	B 89	

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