PREDICTED ENERGY ASSESSMENT

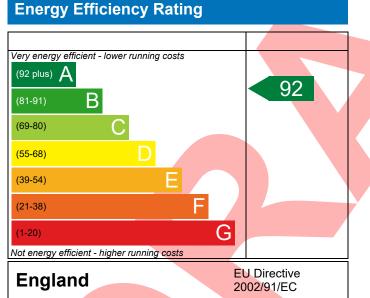


Plot 1, Marroway Lane, Witchford, Cambridgshire, CB6 2HU Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 11/01/2023 Jacob Marchant 90.04 m²

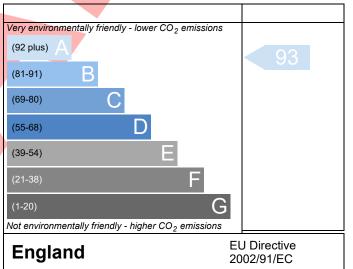
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 (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



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 not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



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



Property Reference	CB6 2HU Plot 1				Issued on Date	11/01/2023	
Assessment	001 Prop Type Ref Type C+						
Reference	Diot 1 Marroway Lorge M	Vitchford Com	bridgebirg CDC 2				
Property	Plot 1, Marroway Lane, V						
SAP Rating		92 A	DER	9.33	TER	18.21	
Environmental		93 A	% DER <ter< td=""><td></td><td>48.76</td><td></td></ter<>		48.76		
CO ₂ Emissions (t/year)		0.58	DFEE	48.29	TFEE	54.38	
General Requirements	Compliance	Pass	% DFEE <tfee< td=""><td></td><td>11.21</td><td></td></tfee<>		11.21		
Assessor Details Mr Client	. Jake Eaton, Jake Eaton, T	Tel: 014002834	71, jake@aeratec	:h.co.uk	Assessor ID	T253-0001	
SUMARY FOR INPUT DA	TA FOR New Build (As De	signed)					
Criterion 1 – Achieving t	the TER and TFEE rate						
1a TER and DER							
Fuel for main heating	7	Mains ga	Mains gas				
Fuel factor		1.00 (ma	ins gas)				
Target Carbon Dioxic	le Emission Rate (TER)	18.21			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)		9.33	9.33		kgCO ₂ /m ²	Pass	
		-8.88 (-4	8.8%)		kgCO ₂ /m ²		
<u>1b TFEE and DFEE</u>							
Target Fabric Energy		54.38			kWh/m²/yr		
Dwelling Fabric Energy	gy Efficiency (DFEE)	48.29			kWh/m²/yr		
Cuitorian 2 Limite and	leater flauthility	-6.1 (-11	.2%)		kWh/m²/yr	Pass	
Criterion 2 – Limits on d							
Limiting Fabric Stand	Jarus						
2 Fabric U-values				:			
Element External wall	Aver	_		ighest		Dace	
Party wall		(max. 0.30) (max. 0.20)	- -	.23 (max. 0.70))	Pass Pass	
Floor		(max. 0.20) (max. 0.25)		.12 (max. 0.70))	Pass	
Roof		(max. 0.20)		.13 (max. 0.35		Pass	
Openings		(max. 2.00)		.40 (max. 3.30		Pass	
2a Thermal bridging		()		- (,		
	calculated from linear the	ermal transmitt	ances for each iur	nction			
3 Air permeability			,				
Air permeability a	at 50 pascals	5.01 (des	sign value)		m³/(h.m²) @ 50 Pa		
Maximum		10.0					
Limiting System Effic	ciencies	L			m³/(h.m²) @ 50 Pa		
<u>4 Heating efficiency</u>							

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Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database	Pass
	Ideal LOGIC COMBI ESP1 24	
	Combi boiler	
	Efficiency: 89.6% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
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	100 %	
fittings		
Minimum	75 %	Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1400 0.1100	
Maximum	0.7	Pass
riterion 3 – Limiting the effects of heat gains in s	ummer	
Summertime temperature		
Overheating risk (East Anglia)	Not significant	Pass
ased on:		
Overshading	Average	
Windows facing North	4.26 m ² , No overhang	
Windows facing East	7.48 m ² , No overhang	
Windows facing West	4.42 m ² , No overhang	
Air change rate	8.00 ach	
Blinds/curtains	Light-coloured curtain or roller blind, closed 0% of dayligh	t
	hours	
vitarian 4 Duilding norformance consistent wit	h DED and DEEE rate	
riterion 4 – Building performance consistent wit	h DER and DFEE rate	
Party Walls		
Party Walls Type	U-value	Pass
Party Walls Type Solid Wall		Pass
Party Walls Type Solid Wall Air permeability and pressure testing	U-value	Pass
Party Walls Type Solid Wall Air permeability and pressure testing <u>3 Air permeability</u>	U-value 0.00 W/m ² K	
Party Walls Type Solid Wall Air permeability and pressure testing	U-value	°a

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10 Key features

Party wall U-value	0.00	W/m²K
Floor U-value	0.12	W/m²K
Photovoltaic array	2.05	kW
		•

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