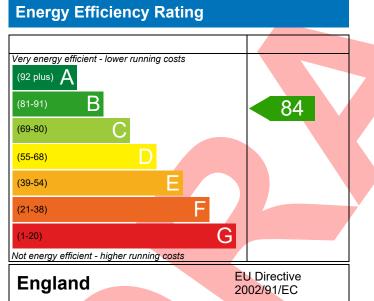
PREDICTED ENERGY ASSESSMENT



Plot 10, Land off Hawks Road, Welton, Lincoln, LN2 3BS Dwelling type: Date of assessment: Produced by: Total floor area: House, Detached 19/07/2022 Jake Eaton 123.98 m²

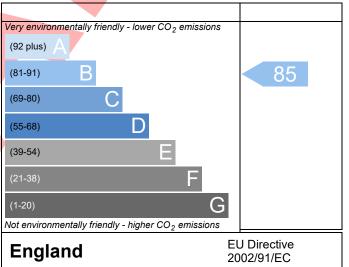
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



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

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



Property Reference	LN2 3BS Plot 10 Issued on Date 19/07/20							
Assessment	001	001 Prop Type Ref Highgrove/Gloucester (Type N)						
Reference	Diat 10	Plot 10, Land off Hawks Road, Welton, Lincoln, LN2 3BS						
Property	Plot 10, Lan	и от наwks Ro	bad, weiton, l					
SAP Rating			84 B	DER	16.66	TER	17.08	
Environmental			85 B	% DER <ter< th=""><th></th><th>2.46</th><th></th></ter<>		2.46		
CO ₂ Emissions (t/year)			1.88	DFEE	50.69	TFEE	59.22	
General Requirements Compliance			Pass	% DFEE <tfee< th=""><th></th><th>14.40</th><th></th></tfee<>		14.40		
Assessor Details	VIr. Jake Eaton,	Jake Eaton, Te	el: 01400283471, jake@aeratech.co.uk Assessor ID P711-0001					
Client								
SUMARY FOR INPUT I	DATA FOR New	Build (As Des	igned)					
Criterion 1 – Achievin	g the TER and 1	FEE rate						
1a TER and DER								
Fuel for main heat	Mains gas							
Fuel factor	1.00 (mains gas)							
Target Carbon Dioxide Emission Rate (TER)			17.08			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)			16.66			kgCO ₂ /m ²	Pass	
			-0.42 (-2.5%)			kgCO ₂ /m ²		
1b TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)			59.22			kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE)			50.69			kWh/m²/yr	Dese	
Cuitorian 2 Limite or	docian flowiki	:	-8.5 (-14	.4%)		kWh/m²/yr	Pass	
Criterion 2 – Limits or		ILY						
Limiting Fabric Sta	indards							
2 Fabric U-values					11-h +			
Element Avera			-		lighest	0)	Dasa	
			max. 0.30) max. 0.20)		.28 (max. 0.7	0)	Pass Pass	
				nax. 0.25) 0.18 (max. 0.70)			Pass	
			max. 0.20)		0.11 (max. 0.3		Pass	
			max. 2.00) 1.40 (max. 3.3				Pass	
2a Thermal bridgi				-,				
		om linear ther	mal transmitt	ances for each ju	inction			
3 Air permeability	-			, , .				
Air permeability at 50 pascals			7.00 (design value)			m³/(h.m²) @ 50 Pa		
Maximum			10.0			m ³ /(h.m ²) @ 50 Pa		
Limiting System Ef								
4 Heating efficience								

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



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

BUILDING REGULATION COMPLIANCE Aeratech Ltd Calculation Type: New Build (As Designed) Main heating system Boiler system with radiators or underfloor - Mains gas Pass Data from database Vaillant ecoFIT sustain 615 VU 156/6-3 (H-GB) Efficiency: 89.8% SEDBUK2009 Minimum: 88.0% None Secondary heating system **5** Cylinder insulation Measured cylinder loss: 1.31 kWh/day Hot water storage Pass Permitted by DBSCG 2.10 Primary pipework insulated Yes Pass **6** Controls Space heating controls Time and temperature zone control Pass Cylinderstat Hot water controls Pass Independent timer for DHW Pass **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 summer 9 Summertime temperature Overheating risk (East Pennines) Slight Pass Based on: Overshading Average Windows facing North 0.97 m², No overhang 5.36 m², No overhang Windows facing East 8.54 m², No overhang Windows facing South 9.80 m², No overhang Windows facing West 2.50 ach Air change rate Blinds/curtains Light-coloured curtain or roller blind, closed 50% of daylight hours Criterion 4 – Building performance consistent with DER and DFEE rate **Party Walls** Type **U-value** W/m²K Pass Air permeability and pressure testing **3 Air permeability** 7.00 (design value) Air permeability at 50 pascals m³/(h.m²) @ 50 Pa Maximum 10.0 m³/(h.m²) @ 50 Pa Pass

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 Acratech Ltd Calculation Type: New Build (As Designed) **10 Key features** Party wall U-value 0.00 W/m²K Roof U-value 0.11 W/m²K

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

