PREDICTED ENERGY ASSESSMENT

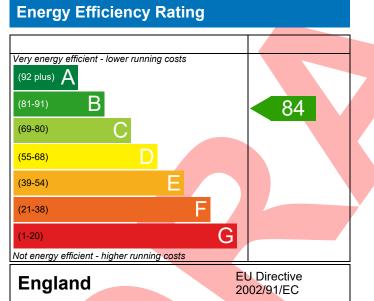


Plot 31, Land off Hawks Road, Welton, Lincoln, LN2 3BS Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 19/07/2022 Jake Eaton 81.47 m²

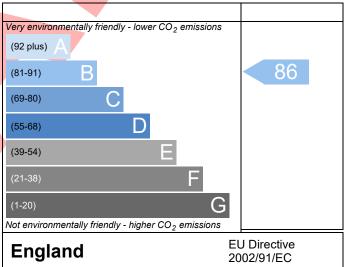
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Reference Plot 31, Land off Hawks Road, Welton, Lincoln, LN2 3BS AP Rating 84 B DER 18.03 TER 18.89 AP Rating 84 B DER 18.03 TER 18.89 CO, Emissions (L/year) 1.29 DFEE 46.99 TFEE 54.75 Seneral Requirements Compliance Pass % DER 46.99 TFEE 54.75 Beneral Requirements Compliance Pass % DER 46.99 TFEE 54.75 Beneral Requirements Compliance Pass % DER 46.99 TFEE 54.75 Deneral Requirements Compliance Pass % DER 46.99 TFEE 54.75 UMARY FOR INPUT DATA FOR New Build (As Designed) riterion 1 - Achieving the TER and TEE rate 4 4 56 Grad Carbon Dioxide Emission Rate (TER) 18.03 kgC0.3/m² Pass 6.86 (4.6%) kgC0.3/m² Pass Dwelling Carbon Dioxide Emission Rate (TER) 54.75 kWh/m²/yr 7.8 (-14.2%) kWh/m²/yr Pass Target Fabric Energy Efficiency (TFEE) 54.	Property Reference	LN2 3BS Plot 31				Issued on Date	19/07/2022
Property [Plot 31, Land off Hawks Road, Welton, Lincoln, LN2 3BS APR Rating 84 B DER 18.03 TER 18.89 SAP Rating 84 B DER 18.03 TER 18.89 Schwirten Mark 86 B % DER 18.03 TER 18.89 Schwirten Mark 86 B % DER 46.99 TFEE 54.75 Schwirten Mark Compliance Pass % DEE 46.99 TFEE 54.75 Schwirten Mark Mark Eaton, Jake Eaton, Tel: 01400283471, Jake@aeratech.co.uk Assessor ID P711-0001 Litent UMARY FOR INPUT DATA FOR New Build (As Designed) Mains gas Target For I Assessor ID P711-0001 UMARY FOR INPUT DATA FOR New Build (As Designed) Mains gas I I I I UMARY FOR INPUT DATA FOR New Build (As Designed) Mains gas I </td <td>Assessment</td> <td>001</td> <td></td> <td>Pro</td> <td>op Type Ref</td> <td>Greenwich (Type B)</td> <td></td>	Assessment	001		Pro	op Type Ref	Greenwich (Type B)	
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Seneral Requirements Compliance Pass % DFEE 14.18 Assessor Details Mr. Jake Eaton, Jake Eaton, Tel: 01400283471, jake@aeratech.co.uk Assessor ID P711-0001 Lient UMARY FOR INPUT DATA FOR New Build (As Designed) riterion 1 – Achieving the TER and TFEE rate a a TER and DER Fuel for main heating Mains.gas Fuel for main heating 1.00 (mains.gas) Pass Target Carbon Dioxide Emission Rate (TER) 18.89 kgCO2/m² Pass bwelling Carbon Dioxide Emission Rate (DER) 18.03 kgCO2/m² Pass -0.86 (-4.6%) kgCO2/m² Pass b TFEE and DFEE 54.75 kWh/m²/yr Pass Target Fabric Energy Efficiency (TFEE) 54.75 kWh/m²/yr Pass viterion 2 - Limits on design flexibility 46.99 kWh/m²/yr Pass triterion 2 - Limits on design flexibility Limiting Fabric Standards 2 Fabric U-values Highest Element Average Highest Pass Pass Floor 0.14 (max. 0.20) 0.14 (max. 0.70) Pass Roof 0.11	Environmental						
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Roof 0.11 (max. 0.20) 0.12 (max. 0.35) Pass				0.	14 (max. 0.70))	
							Pass
Openings 1.40 (max. 2.00) 1.40 (max. 3.30) Pass	Openings	1.40) (max. 2.00)	1.	40 (max. 3.30))	Pass
2a Thermal bridging	2a Thermal bridging						
Thermal bridging calculated from linear thermal transmittances for each junction	Thermal bridging	calculated from linear th	ermal transmitt	ances for each jur	nction		
3 Air permeability	<u>3 Air permeability</u>						
Air permeability at 50 pascals 7.00 (design value) m ³ /(h.m ²) @ 50 Pa	Air permeability a	at 50 pascals	7.00 (des	sign value)		m³/(h.m²) @ 50 Pa	l
Maximum 10.0 m³/(h.m²) @ 50 Pa Pass	Maximum		10.0			m³/(h.m²) @ 50 Pa	Pass
Limiting System Efficiencies	Limiting System Effic	ciencies					
4 Heating efficiency	4 Heating efficiency						

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



71		
Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Vaillant ecoFIT sustain 835 VUW 356/6-3 (H-GB) Combi boiler Efficiency: 89.3% SEDBUK2009 Minimum: 88.0%	Pass
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 fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
riterion 3 – Limiting the effects of heat gains in su	ummer	
Summertime temperature		
Overheating risk (East Pennines)	Slight	Pass
ased on:		_
Overshading	Average	
	6.91 m ² , No overhang	
Windows facing North		
Windows facing South	4.54 m^2 , No overhang	
Windows facing South Windows facing West	1.45 m ² , No overhang	
Windows facing South Windows facing West Air change rate	1.45 m ² , No overhang 2.50 ach	
Windows facing South Windows facing West	1.45 m ² , No overhang	
Windows facing South Windows facing West Air change rate Blinds/curtains	 1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours 	
Windows facing South Windows facing West Air change rate Blinds/curtains	 1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours 	
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with	 1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours 	
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls	 1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate 	Pass
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type	1.45 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value	Pass
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	1.45 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value	Pass
Windows facing South Windows facing West Air change rate Blinds/curtains Titerion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	1.45 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value	Pass
Windows facing South Windows facing West Air change rate Blinds/curtains Titerion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value 0.00 W/m²K	Pass
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value 0.00 W/m²K 7.00 (design value) m³/(h.m²) @ 50 Pa	
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value 0.00 W/m²K 7.00 (design value) m³/(h.m²) @ 50 Pa	
Windows facing South Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum O Key features	1.45 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value 0.00 W/m²K 7.00 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa	

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