PREDICTED ENERGY ASSESSMENT



Plot 106, Siskin Park, Land off Hartlepool

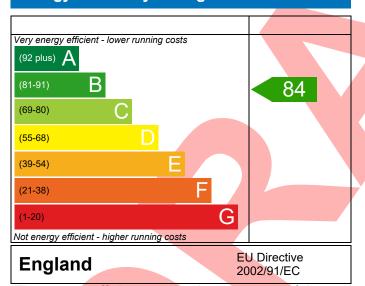
Road, Wynyard, Billingham, TS22 5GS Dwelling type: House, Detached

Date of assessment: 21/07/2021
Produced by: Jake Eaton
Total floor area: 104.1 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.

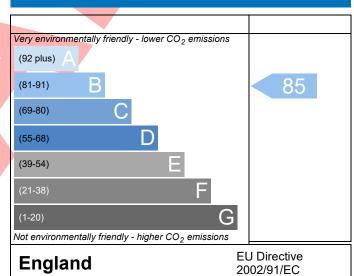
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



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 (CO₂) 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		6			sued on Date	21/07/2021	
Assessment	001 Prop Type Ref New Walton						
Reference Property	Plot 106 Sickin B	ark, Land off Hartlepo	ool Road Wynyard	Rillingham TS2	2 565		
	FIOU 100, SISKIII F						
SAP Rating		84 B	DER	17.09	TER	18.89	
Environmental	,	85 B	% DER <ter< td=""><td></td><td>9.52</td><td></td></ter<>		9.52		
CO ₂ Emissions (t/year)		1.66	DFEE	56.59	TFEE	63.14	
General Requireme	ents Compliance	Pass	% DFEE <tfee< td=""><td></td><td>10.38</td><td></td></tfee<>		10.38		
Assessor Details	Mr. Jake Eaton, Jake	Eaton, Tel: 01400283	471, jake@aerated	h.co.uk	Assessor ID	P711-0001	
Client	Countryside Propert	ies , CPPLC					
SUMARY FOR INPU	T DATA FOR New Buil	d (As Designed)					
Criterion 1 – Achiev	ring the TER and TFEE	rate					
1a TER and DER							
Fuel for main he	ating	Mains	Mains gas				
Fuel factor		1.00 (m	ains gas)				
Target Carbon D	ioxide Emission Rate (TER) 18.89			kgCO ₂ /m ²		
Dwelling Carbon	Dioxide Emission Rate	e (DER) 17.09			kgCO ₂ /m ²	Pass	
		-1.80 (-9	9.5%)		kgCO₂/m²		
Lb TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)		63.14			kWh/m²/yr		
Dwelling Fabric I	Energy Efficiency (DFEI			7	kWh/m²/yr		
		-6.5 (-10	0.3%)		kWh/m²/yr	Pass	
	on design flexibility						
Limiting Fabric S	Standards						
2 Fabric U-value	<u>es</u>						
Element		Average	Н	ighest			
External v	wall	0.23 (max. 0.30)	0.	23 (max. 0.70)		Pass	
Party wal	I	0.00 (max. 0.20)	-			Pass	
Floor		0.15 (max. 0.25)		16 (max. 0.70)		Pass	
Roof		0.11 (max. 0.20)		18 (max. 0.35)		Pass	
Openings		1.30 (max. 2.00)	1.	30 (max. 3.30)		Pass	
2a Thermal brid							
Thermal brid	ging calculated from li	near thermal transmit	ttances for each jui	nction			
3 Air permeabili	ty						
		4.00 / 4	esign value)	100	n ³ /(h.m ²) @ 50 P	2	
Air permeabi	ility at 50 pascals	4.00 (06	esigii value)		1 /(11.111) @ 30 P	а	

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4 Heating efficiency

Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16

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



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Potterton ASSURE 36 COMBI Combi boiler Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%	Pass
Secondary heating system	None	
5 Cylinder insulation		
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 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 (North East England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North East	7.47 m², No overhang]
Windows facing South East	2.01 m ² , No overhang	
Windows facing South West	9.18 m², No overhang	
Windows facing North West	1.35 m², No overhang]
Air change rate	2.50 ach	
Blinds/curtains	Light-coloured curtain or roller blind, closed 50% of daylight	
	hours	
Criterion 4 – Building performance consistent with	DER and DEEE rate	
Party Walls		
Туре	U-value	
	W/m²K	Pass
Air permeability and pressure testing		
3 Air permeability	3// 2/ 0.00	
Air permeability at 50 pascals	4.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m ³ /(h.m ²) @ 50 Pa	Pass
10 Key features		
Party wall U-value	0.00 W/m²K	
Roof U-value	0.10 W/m ² K	

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