PREDICTED ENERGY ASSESSMENT



Plot 144, Siskin Park, Off Hartlepool Road,

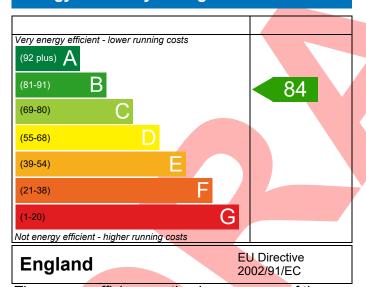
Wynyard, Billingham, TS22 5GS Dwelling type: House, Detached

Date of assessment: 21/07/2021
Produced by: Jake Eaton
Total floor area: 93.93 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.

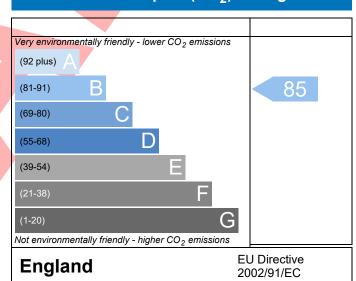
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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)



2	TC22 FCC PL + 4.4	4				24 /07 /202
Property Reference		.4			Issued on Date	21/07/202
Assessment Reference	001		Pr	op Type Ref	Blytn	
Property	Plot 144, Siskin P	ark, Off Hartlepool Ro	oad, Wynyard, Billi	ngham, TS22 5	GS	
SAP Rating		84 B	DER	17.29	TER	18.90
Environmental		85 B	% DER <ter< td=""><td></td><td>8.54</td><td></td></ter<>		8.54	
CO ₂ Emissions (t/y	ear)	1.51	DFEE	54.55	TFEE	60.58
General Requirem	ents Compliance	Pass	% DFEE <tfee< td=""><td></td><td>9.96</td><td></td></tfee<>		9.96	
Assessor Details	Mr. Jake Eaton, Jake	Eaton, Tel: 01400283	471, jake@aerated	ch.co.uk	Assessor ID	P711-000:
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				
a TER and DER						
Fuel for main he	ating	Mains	gas			
Fuel factor		1.00 (m	ains gas)			
Target Carbon D	ioxide Emission Rate (TER) 18.90			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)		e (DER) 17.29			kgCO ₂ /m ²	Pass
		-1.61 (-	8.5%)		kgCO₂/m²	
Lb TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		60.58			kWh/m²/yr	
Dwelling Fabric I	Energy Efficiency (DFE	54.55		7	kWh/m²/yr	
		-6.0 (-9	.9%)		kWh/m²/yr	Pass
Criterion 2 – Limits	on design flexibility					
Limiting Fabric S	Standards					
2 Fabric U-value	<u>es</u>					
Element		Average	Н	ighest		
External	wall	0.23 (max. 0.30)	0	.23 (max. 0.70)	Pass
Party wal	l /	0.00 (max. 0.20)	-			Pass
Floor		0.15 (max. 0.25)	0	.15 (max. 0.70)	Pass
		0.11 (max. 0.20)	0	.17 (max. 0.35)	Pass
Roof						
Roof Openings		1.30 (max. 2.00)	1	.30 (max. 3.30)	Pass
		1.30 (max. 2.00)	1	.30 (max. 3.30)	Pass
Openings 2a Thermal brid)	Pass
Openings 2a Thermal brid	ging ging calculated from li)	Pass
Openings 2a Thermal brid Thermal brid 3 Air permeabili	ging ging calculated from li	near thermal transmi) m³/(h.m²) @ 50 Pa	

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



4 Heating efficiency

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



Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Potterton ASSURE 36 COMBI Combi boiler	
	Efficiency: 89.0% SEDBUK2009	
	Minimum: 88.0%	
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	100 %	
fittings		
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in sur	mmer	
9 Summertime temperature		
Overheating risk (North East England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North East	10.11 m², No overhang	
Windows facing South West	7.88 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		
Party Walls	DEI GIA DI LE FALC	
Type	U-value	
<i>H</i> *	W/m²K	Pass
Air permeability and pressure testing		
3 Air permeability		
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/m ² K	
Roof U-value	0.10 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.



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