PREDICTED ENERGY ASSESSMENT

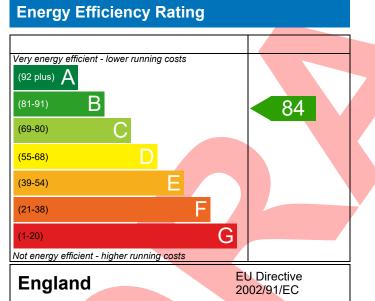


Plot 129, Siskin Park, Off Hartlepool Road, Wynyard, Billingham, TS22 5GS Dwelling type: Date of assessment: Produced by: Total floor area:

House, Detached 21/07/2021 Jake Eaton 92.2 m²

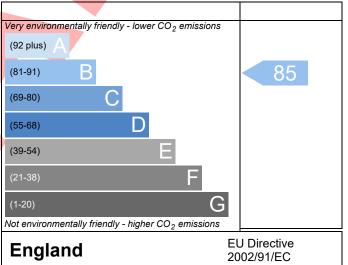
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



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

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



Property Reference		TS22 5GS Plot 129 Issued on Date 21/07/2021						21/07/2021			
Assessment		001				Prop Type Ref New Ashbourne					
Reference											
Property		Plot 129, Siskin Park	Off H	artlepool Roa	ad, Wynyard, B	Billing	ham, TS22 s	5GS			
SAP Rating				84 B	DER		17.23	TER	18.82		
Environmental				85 B	% DER <ter< td=""><td></td><td></td><td>8.45</td><td></td></ter<>			8.45			
CO ₂ Emissions (t/year)				1.49	DFEE		54.50	TFEE	59.70		
General Requireme	General Requirements Compliance			Pass	% DFEE <tfe< td=""><td>E</td><td></td><td>8.72</td><td></td></tfe<>	E		8.72			
Assessor Details	Details Mr. Jake Eaton, Jake Eaton, Tel: 01400283471, jake@aeratech.co.uk Assessor ID P712						P711-0001				
Client	Со	ountryside Properties , CPPLC									
SUMARY FOR INPUT	' DA	TA FOR New Build (A	s Desi	gned)		·					
Criterion 1 – Achievi	ng t	he TER and TFEE rate	:								
<u>1a TER and DER</u>											
Fuel for main heating				Mains gas							
Fuel factor				1.00 (mains gas)							
Target Carbon Dioxide Emission Rate (TER)				18.82 kgCO ₂ /m							
Dwelling Carbon Dioxide Emission Rate (DER)				17.23				kgCO₂/m²	Pass		
				-1.59 (-8	.4%)			kgCO₂/m²			
1b TFEE and DFEE											
Target Fabric Energy Efficiency (TFEE)				59.70 kW							
Dwelling Fabric E	ner	gy Efficiency (DFEE)		54.50				kWh/m²/y			
Cuitorion 2 Linsite		anian flawibility.		-5.2 (-8.7	%)			kWh/m²/y	r Pass		
Criterion 2 – Limits o											
Limiting Fabric St		arus									
2 Fabric U-values	<u>b</u>										
	Element Aver						hest	Dese			
External w	/all			max. 0.30)			3 (max. 0.70))	Pass		
Party wall Floor				max. 0.20) max. 0.25)		- 0 1	6 (max. 0.70	1	Pass Pass		
Roof							7 (max. 0.35	Pass			
Openings	· · · · · · · · · · · · · · · · · · ·			max. 2.00) 1.30 (max.							
2a Thermal bridging				100 (1100)					1 405		
		calculated from linea	r ther	mal transmitt	ances for each	n iuna	tion				
3 Air permeabilit						- juni					
Air permeability at 50 pascals				4.00 (design value)				m³/(h.m²) @ 50 F	Da		
Maximum				10.0				m ³ /(h.m ²) @ 50 F			
Limiting System Efficiencies											
4 Heating efficier											
	101										

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



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database	Pass
	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 fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in sun	nmer	
<u>9 Summertime temperature</u>		
Overheating risk (North East England)	Medium	Pass
Based on:		J
Overshading	Average]
Windows facing South East	12.80 m ² , No overhang]
Windows facing North West	7.61 m ² , 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 I	DER and DFEE rate	
Party Walls		
Туре	U-value	
	W/m²K	Pass
Air permeability and pressure testing		
<u>3 Air permeability</u>		
Air permeability at 50 pascals	4.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
10 Key features		
Party wall U-value	0.00 W/m²K	
Roof U-value	0.10 W/m²K	

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