PREDICTED ENERGY ASSESSMENT

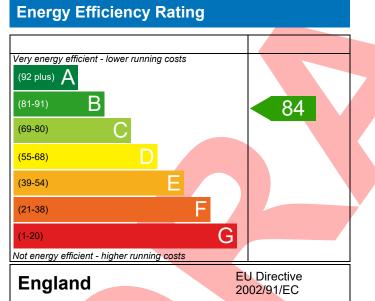


Plot 115, Siskin Park, Land off Hartlepool Road, Wynyard, Billingham, TS22 5GS Dwelling type: Date of assessment: Produced by: Total floor area:

House, Detached 21/07/2021 Jake Eaton 104.1 m²

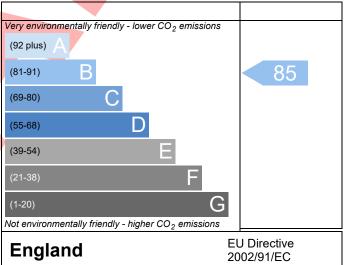
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

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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 115				Issued on Date	21/07/2021
Assessment	001 Prop Type Ref New Walton					
Reference						
Property	Plot 115, Siskin Park, Land	d off Hartlepoc	ol Road, Wynyard,	Billingham, T	S22 5GS	
SAP Rating		84 B	DER	17.41	TER	19.34
Environmental		85 B	% DER <ter< th=""><th></th><th>9.97</th><th></th></ter<>		9.97	
CO₂ Emissions (t/year)		1.69	DFEE	58.05	TFEE	65.40
General Requirements	Compliance	Pass	% DFEE <tfee< th=""><th></th><th>11.23</th><th></th></tfee<>		11.23	
Assessor Details Mr	. Jake Eaton, Jake Eaton, T	el: 014002834	71, jake@aeratec	h.co.uk	Assessor ID	P711-0001
Client	untryside Properties , CPPI	LC				
SUMARY FOR INPUT DA	TA FOR New Build (As Des	signed)				
Criterion 1 – Achieving t	the TER and TFEE rate					
1a TER and DER						
Fuel for main heating	Mains ga	IS				
Fuel factor		1.00 (ma	ins gas)			
Target Carbon Dioxid	le Emission Rate (TER)	19.34			kgCO ₂ /m ²	
Dwelling Carbon Dio	xide Emission Rate (DER)	17.41			kgCO ₂ /m ²	Pass
		-1.93 (-1	0.0%)		kgCO ₂ /m ²	
1b TFEE and DFEE						
Target Fabric Energy		65.40			kWh/m²/yr	
Dwelling Fabric Energ	gy Emclency (DFEE)	58.05	20/1		kWh/m²/yr	Desc
Criterion 2 – Limits on d	losign flovibility	-7.3 (-11	.270)		kWh/m²/yr	Pass
Limiting Fabric Stand						
<u>2 Fabric U-values</u>						
Element	Aver	906		ighest		
External wall		(max. 0.30)		.23 (max. 0.70	າ	Pass
Party wall		(max. 0.30) (max. 0.20)	-	25 (1187. 0.70)	Pass
Floor		(max. 0.25)		16 (max. 0.70))	Pass
Roof		(max. 0.20)		18 (max. 0.35		Pass
Openings	1.30	(max. 2.00)		30 (max. 3.30		Pass
2a Thermal bridging						
Thermal bridging	calculated from linear the	rmal transmitt	ances for each jui	nction		
<u>3 Air permeability</u>						
Air permeability a	at 50 pascals	4.00 (des	sign value)		m³/(h.m²) @ 50 Pa	
Maximum		10.0			m³/(h.m²) @ 50 Pa	Pass
Limiting System Effic	ciencies					
4 Heating efficiency						

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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		
<u>7 Low energy lights</u>				
Percentage of fixed lights with low-energy fittings	100 %			
Minimum	75 %	Pass		
8 Mechanical ventilation				
Not applicable				
iterion 3 – Limiting the effects of heat gains in su	mmer			
Summertime temperature				
Overheating risk (North East England)	Slight	Pass		
ased on:				
Overshading	Average			
Windows facing North East	9.18 m ² , No overhang			
Windows facing South East	1.35 m ² , No overhang			
Windows facing South West	7.47 m ² , No overhang			
Windows facing North West	2.01 m ² , No overhang			
Air change rate	2.50 ach			
	2.50 ddi			
Blinds/curtains	Light-coloured curtain or roller blind, closed 50% of daylight			
Blinds/curtains				
iterion 4 – Building performance consistent with	Light-coloured curtain or roller blind, closed 50% of daylight hours			
riterion 4 – Building performance consistent with Party Walls	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate			
riterion 4 – Building performance consistent with	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value			
riterion 4 – Building performance consistent with Party Walls Type	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate	Pass		
riterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value	Pass		
iterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing <u>3 Air permeability</u>	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value W/m ² K	Pass		
riterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value W/m ² K 4.00 (design value) m ³ /(h.m ²) @ 50 Pa			
riterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value W/m ² K	Pass		
riterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum O Key features	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value W/m²K 4.00 (design value) m³/(h.m²) @ 50 Pa 10.0			
riterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum	Light-coloured curtain or roller blind, closed 50% of daylight hours DER and DFEE rate U-value W/m ² K 4.00 (design value) m ³ /(h.m ²) @ 50 Pa			

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