PREDICTED ENERGY ASSESSMENT

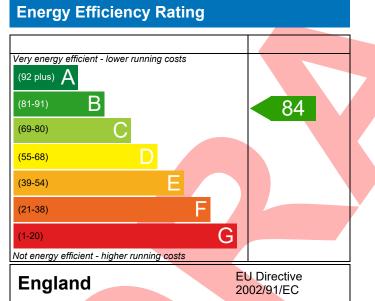


Plot 162, Siskin Park, Off Hartlepool Road, Wynyard, Billingham, TS22 5GS Dwelling type: Date of assessment: Produced by: Total floor area:

House, Detached 21/07/2021 Jake Eaton 114.85 m²

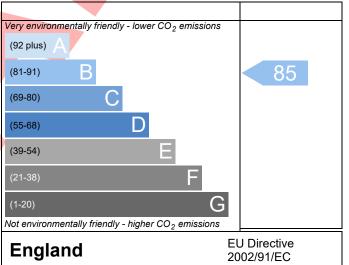
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 4.14r16

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



Property Reference		TS22 5GS Plot 162						Issue	d on Date	21/07/2021
Assessment		001				Prop T	ype Ref	Lymin	gton	
Reference			04	lortlone cl.D		1100 -1-	TC22	FCC		
Property		Plot 162, Siskin Park	, υπ ŀ			liingna	im, 1522			
SAP Rating				84 B	DER		16.05	TE	R	17.80
Environmental				85 B	% DER <ter< th=""><th></th><th></th><th></th><th>9.81</th><th></th></ter<>				9.81	
CO ₂ Emissions (t/yea				1.73	DFEE		53.97	TF	EE	60.38
General Requiremer	nts C	Compliance		Pass	% DFEE <tfee< th=""><th></th><th></th><th></th><th>10.62</th><th></th></tfee<>				10.62	
Assessor Details	Mr.	Jake Eaton, Jake Eat	on, T	el: 014002834	71, jake@aerat	ech.co	o.uk	As	sessor ID	P711-0001
Client	Cou	ntryside Properties ,	CPPL	.C						
SUMARY FOR INPUT	DAT	A FOR New Build (A	s Des	igned)						
Criterion 1 – Achievir	ng th	ne TER and TFEE rate	9							
1a TER and DER										
Fuel for main heat	ting			Mains ga	is					
Fuel factor				1.00 (ma	ins gas)					
Target Carbon Dio	oxide	e Emission Rate (TER)	17.80					kgCO ₂ /m ²	
Dwelling Carbon E	Dioxi	ide Emission Rate (D	ER)	16.05					kgCO ₂ /m ²	Pass
				-1.75 (-9	.8%)				kgCO ₂ /m²	
<u>1b TFEE and DFEE</u>										
Target Fabric Ener				60.38					kWh/m²/yr	
Dwelling Fabric Er	herg	y Efficiency (DFEE)		53.97					kWh/m²/yr	
				-6.4 (-10	.6%)				kWh/m²/yr	Pass
Criterion 2 – Limits o										
Limiting Fabric Sta		ards								
2 Fabric U-values										
Element	- 11		Avera	-		Highe		2)		Dasa
External wa	all			(max. 0.30) (max. 0.20)		- 0.23 (max. 0.7	0)		Pass Pass
Party wall Floor				(max. 0.20) (max. 0.25)			max. 0.7	n)		Pass
Roof				(max. 0.23) (max. 0.20)			max. 0.3			Pass
Openings				(max. 2.00) 1.30 (max. 3.3						Pass
2a Thermal bridgi	ing							- /		
		alculated from linea	r the	rmal transmitt	ances for each i	junctio	on			
3 Air permeability						,				
Air permeabili	-	50 pascals		4.00 (des	sign value)			m³/(ŀ	n.m²) @ 50 Pa	1
Maximum	,			10.0					n.m²) @ 50 Pa	
Limiting System E	ffici	encies						, (.	, с	
4 Heating efficien										
		—								

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Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Baxi 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		
iterion 3 – Limiting the effects of heat gains in s	ummer	
Summertime temperature		
Overheating risk (North East England)	Clicht	Pass
Overneating risk (North East England)	Slight	r ass
	Signt	F ass
	Average	
used on:		
overshading	Average 9.47 m ² , No overhang 1.35 m ² , No overhang	
overshading Windows facing North East Windows facing South East Windows facing South West	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang	
overshading Windows facing North East Windows facing South East	Average 9.47 m ² , No overhang 1.35 m ² , No overhang	
ased on: Overshading Windows facing North East Windows facing South East Windows facing South West	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang	
ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang 1.35 m ² , No overhang	
overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach	
overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains iterion 4 – Building performance consistent with	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours	
ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains Titerion 4 – Building performance consistent with Party Walls	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate	
ased on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 1.2.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value	 nt
Assed on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 12.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate	
Assed on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains Titerion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing	Average 9.47 m ² , No overhang 1.35 m ² , No overhang 1.2.29 m ² , No overhang 1.35 m ² , No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value	 nt
Air permeability and pressure testing Air permeability Air permeability Air permeability Air permeability Air permeability Air permeability Air permeability Air permeability	Average 9.47 m², No overhang 1.35 m², No overhang 12.29 m², No overhang 1.35 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value W/m²K	nt Pass
Air permeability and pressure testing Air permeability at 50 pascals	Average 9.47 m², No overhang 1.35 m², No overhang 1.229 m², No overhang 1.35 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value W/m²K	nt Pass
Air permeability and pressure testing Air permeability and pressure testing Air permeability at 50 pascals Maximum	Average 9.47 m², No overhang 1.35 m², No overhang 12.29 m², No overhang 1.35 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value W/m²K	nt Pass
Assed on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains Titerion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum D Key features	Average 9.47 m², No overhang 1.35 m², No overhang 1.2.29 m², No overhang 1.35 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value	nt Pass
Assed on: Overshading Windows facing North East Windows facing South East Windows facing South West Windows facing North West Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum	Average 9.47 m², No overhang 1.35 m², No overhang 1.229 m², No overhang 1.35 m², No overhang 2.50 ach Light-coloured curtain or roller blind, closed 50% of dayligh hours h DER and DFEE rate U-value W/m²K	nt Pass

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