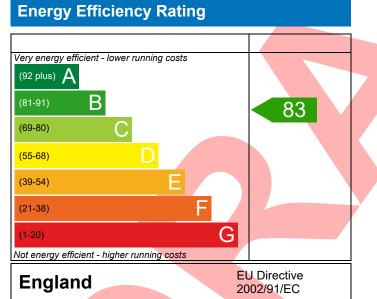
PREDICTED ENERGY ASSESSMENT



Plot 21, 3 Bed, K,WC,B Dwelling type: Date of assessment: Produced by: Total floor area: House, Semi-Detached 30/03/2023 Henry Knight 91.46 m²

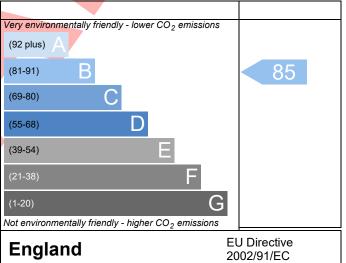
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 4.14r19

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



Property Reference		4907-U528-5247-021 Issued on Date 30/03/							
Assessment Reference	021	021 Prop Type Ref 3B5P Block 11 (AS)							
Property	Plot 21, 3 Bed, K,	WC B							
	PIOL 21, 3 Beu, K,	ννс,в			19.12				
SAP Rating			83 B			0.30	19.18		
Environmental			85 B	% DER <ter< td=""><td></td><td>59.85</td></ter<>		59.85			
CO ₂ Emissions (t/year)			1.40			54.24 TFEE			
General Requiremer	its Compliance		Pass	% DFEE <tfee< td=""><td></td><td>9.38</td><td></td></tfee<>		9.38			
	Mr. Silvio Junges, Silv silvio.junges@aessc.c	•	es, Tel: 01884 242050, Assessor ID U528-0001						
Client	VISTRY GROUP, Partr	nerhsips							
UMARY FOR INPUT	DATA FOR New Build	l (As Desig	ned)						
riterion 1 – Achievir	ng the TER and TFEE r	ate							
a TER and DER									
Fuel for main heat	ting		Mains g	as					
Fuel factor			1.00 (ma						
Target Carbon Dioxide Emission Rate (TER)			19.18 kgCO ₂ /m ²						
Dwelling Carbon Dioxide Emission Rate (DER)			19.12 kgCO ₂ /m ²			kgCO ₂ /m ²	Pass		
			-0.06 (-0	.3%)		kgCO ₂ /m ²			
b TFEE and DFEE									
Target Fabric Energy Efficiency (TFEE)			59.85 kWh/m²/yr						
Dwelling Fabric Er	ergy Efficiency (DFEE	i)	54.24			kWh/m²/yr			
			-5.6 (-9.4	4%)		kWh/m²/yr	Pass		
Criterion 2 – Limits o				-					
Limiting Fabric Sta	andards								
2 Fabric U-values									
Element		Averag	е		Highest				
External wa	all		iax. 0.30)	ax. 0.30) 0.22 (max. 0.70)			Pass		
Party wall			(max. 0.20) -				Pass		
Floor			iax. 0.25)		0.10 (max. 0.70		Pass		
Roof			(max. 0.20) 0.11 (max. 0.35) (max. 2.00) 1.40 (max. 3.30)			,	Pass		
Openings 1.33 (ma			iax. 2.00)))	Pass			
<u>2a Thermal bridgi</u>									
	ing calculated from lin	near therm	nal transmit	tances for each	junction				
<u>3 Air permeability</u>	L								
	ty at 50 pasc <mark>als</mark>		5.01 (design value)			m³/(h.m²) @ 50 Pa			
	Maximum				m³/(h.m²) @ 50 Pa Pass				
			10.0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

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



Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass			
0,1	Data from database				
	Ideal LOGIC COMBI ESP1 35				
	Combi boiler				
	Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%				
Secondary heating system	None				
5 Cylinder insulation					
Hot water storage	No cylinder				
<u>6 Controls</u>					
Space heating controls	Programmer, room thermostat and TRVs	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 su	ummer				
<u>9 Summertime temperature</u>					
Overheating risk (Thames Valley)	Not significant	Pass			
Based on:					
Overshading	Average				
Windows facing North East	3.49 m ² , No overhang				
Windows facing South East Windows facing South West	2.06 m ² , No overhang 3.03 m ² , No overhang				
Windows facing South West	8.28 m ² , No overhang				
Air change rate	8.00 ach				
Blinds/curtains	None				
Criterion 4 – Building performance consistent with	DER and DFEE rate	<u>.</u>			
Party Walls					
Туре	U-value				
Filled Cavity with Edge Sealing	0.00 W/m²K	Pass			
Air permeability and pressure testing					
<u>3 Air permeability</u>					
Air permeability at 50 pascals	5.01 (design value) m ³ /(h.m ²) @ 50 P	а			
Maximum	10.0 m³/(h.m²) @ 50 P	a Pass			
<u>10 Key features</u>					
Party wall U-value	0.00 W/m²K				
	0.11 W/m²K				
Roof U-value	0.11				
Roof U-value Floor U-value	0.10 W/m K				

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RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£78	B 84	B 87	Recommended
Photovoltaic	£3,500 - £5,500	£672	A 94	A 95	Recommended
Wind turbine			0	0	Not applicable
Totals	£7,500 - £11,500	£750	A 94	A 95	
Totals	17,500 111,500	2750	A JA	A 33	

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