PREDICTED ENERGY ASSESSMENT

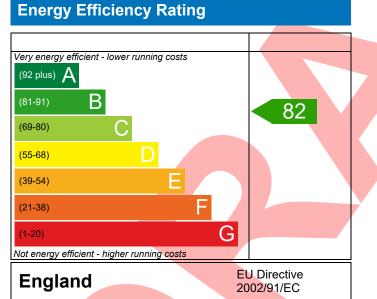


Plot 145, 1 Bed, K+B Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Semi-Detached 22/09/2020 Kieran Davies 50.15 m²

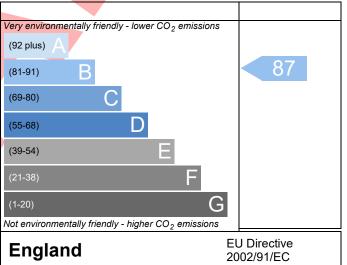
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Page 1 of 4

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



Reference Property Plo SAP Rating Environmental CO2 Emissions (t/year) General Requirements Com Assessor Details Mr. Kie Kieran. Assessor Details Mr. Kie Kieran. South, Client South, South, SUMARY FOR INPUT DATA F Friterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel for Zarget Carbon Dioxide Er	eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	igned)	DER % DER <ter DFEE % DFEE<tfee< th=""><th>20.38</th><th>Itel TER 9.57 TFEE 14.75</th><th>22.54 62.83 T716-0001</th></tfee<></ter 	20.38	Itel TER 9.57 TFEE 14.75	22.54 62.83 T716-0001
Property Plo SAP Rating Environmental CO ₂ Emissions (t/year) General Requirements Com Assessor Details Mr. Kie Kieran. Client South, UMARY FOR INPUT DATA F riterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	npliance eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	87 B 0.91 Pass ies , Tel: 0188	% DER <ter DFEE % DFEE<tfee< th=""><th></th><th>9.57 TFEE 14.75</th><th>62.83</th></tfee<></ter 		9.57 TFEE 14.75	62.83
SAP Rating Environmental CO₂ Emissions (t/year) General Requirements Com Assessor Details Mr. Kie Assessor Details Mr. Kie Client South, CUMARY FOR INPUT DATA F Criterion 1 – Achieving the 1 .a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	npliance eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	87 B 0.91 Pass ies , Tel: 0188	% DER <ter DFEE % DFEE<tfee< th=""><th></th><th>9.57 TFEE 14.75</th><th>62.83</th></tfee<></ter 		9.57 TFEE 14.75	62.83
Environmental CO₂ Emissions (t/year) General Requirements Com Assessor Details Mr. Kie Kieran. Client South, SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	87 B 0.91 Pass ies , Tel: 0188	% DER <ter DFEE % DFEE<tfee< th=""><th></th><th>9.57 TFEE 14.75</th><th>62.83</th></tfee<></ter 		9.57 TFEE 14.75	62.83
CO₂ Emissions (t/year) General Requirements Com Assessor Details Mr. Kie Kieran. Client South, SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	0.91 Pass ies , Tel: 0188 igned)	DFEE % DFEE <tfee< th=""><th>53.56</th><th>TFEE 14.75</th><th></th></tfee<>	53.56	TFEE 14.75	
General Requirements Com Assessor Details Mr. Kie Kieran. Client South, SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	Pass ies , Tel: 0188 igned)	% DFEE <tfee< td=""><td>53.56</td><td>14.75</td><td></td></tfee<>	53.56	14.75	
Assessor Details Mr. Kie Kieran. South, SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	eran Davies, Kieran Dav .davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	ies , Tel: 0188 igned)				T716-0001
Kieran. South, SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	.davies@aessc.co.uk Countryside NH & C FOR New Build (As Des TER and TFEE rate	igned)	34 242050,		Assessor ID	T716-0001
SUMARY FOR INPUT DATA F Criterion 1 – Achieving the T a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	FOR New Build (As Des TER and TFEE rate					
Criterion 1 – Achieving the T .a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	TER and TFEE rate					
Criterion 1 – Achieving the T .a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide	TER and TFEE rate					
.a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide						
Fuel for main heating Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide						
Fuel factor Target Carbon Dioxide Er Dwelling Carbon Dioxide		Mains ga	35			
Target Carbon Dioxide Er Dwelling Carbon Dioxide		1.00 (mains gas)				\dashv
Dwelling Carbon Dioxide	mission Rate (TER)	22.54			kgCO ₂ /m ²]
-	Dwelling Carbon Dioxide Emission Rate (DER)				kgCO ₂ /m ²	Pass
b TFEE and DFEE		20.38	.6%)		kgCO ₂ /m ²	
					0 2,	
Target Fabric Energy Efficiency (TFEE)		62.83			kWh/m²/yr	
Dwelling Fabric Energy Efficiency (DFEE)		53.56	53.56		kWh/m²/yr	
		-9.2 (-14	.6%)		kWh/m²/yr	Pass
Criterion 2 – Limits on desig	gn flexibility					
Limiting Fabric Standard	ls					
2 Fabric U-values						
Element	Avera	ge	н	lighest		
External wall		max. 0.30)).18 (max. 0.70)		Pass
Party wall		max. 0.20)	-	. ,		Pass
Floor		max. 0.25)	0).15 (max. 0.70)		Pass
Openings	Openings 1.23 (ma			1.36 (max. 3.30)		Pass
2a Thermal bridging						
	culated from linear ther	mal transmit	tances for each iu	Inction		
3 Air permeability			j			
	Air permeability at 50 pascals		sign value)		m³/(h.m²) @ 50 Pa	
Maximum		10.0			m³/(h.m²) @ 50 Pa	
Limiting System Efficience	cies				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4 Heating efficiency						
- ricating eniciency						

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)



Main heating system	Boiler system with radiators or underfloor - Mains Data from database	gas Pass
	Potterton ASSURE 36 COMBI	
	Combi boiler	
	Efficiency: 89.0% SEDBUK2009	
Secondary heating system	Minimum: 88.0%	
5 Cylinder insulation	None	
	No cylinder	
Hot water storage	No cymraer	
<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	//	F d 3 3
Continuous extract system (decentralised) Specific fan power	0.1900 0.1800	
Maximum	0.7	Pass
iterion 3 – Limiting the effects of heat gains in sur		F 833
Summertime temperature		
	D (n dium	Dage
Overheating risk (South East England)	Medium	Pass
Overshading	Average	
Windows facing West	10.72 m ² , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	
iterion 4 – Building performance consistent with		
Party Walls		
Type	U-value	
Filled Cavity with Edge Sealing		m²K Pass
Air permeability and pressure testing	0.00	
<u>3 Air permeability</u>		
Air permeability at 50 pascals	5.00 (design value) m ³ /(h.m ²)	0 50 Pa
Maximum		
	10.0 m³/(h.m²)	@ 50 Pa Pass
<u>D Key features</u>	0.00	
Party wall U-value		m²K
Door U-value	1.00 W/	m²K
Door U-value	1.10 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.



RECOMMENDATIONS





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

