#### PREDICTED ENERGY ASSESSMENT



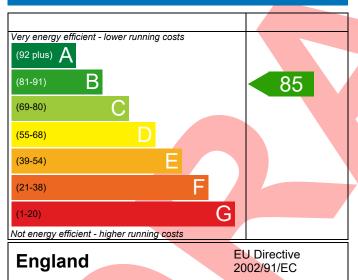
Plot 624, 2B, 1B Dwelling type: Flat, Semi-Detached

Date of assessment: 28/07/2023
Produced by: Jennifer Bantin
Total floor area: 80.02 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.

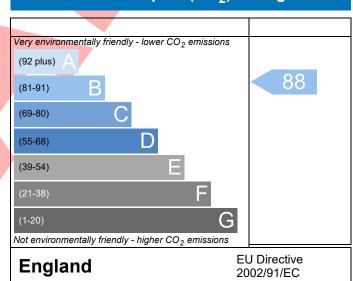
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO<sub>2</sub>) emissions.

### **Energy Efficiency Rating**



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 (CO<sub>2</sub>) Rating**



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO<sub>2</sub>) 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.



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



Property Reference 4907-AM89-6513-624				Issued on Date	28/07/2023				
Assessment 624	624 Prop Type Ref Apt Type D FF								
Reference Plot 624, 2B, 1B									
					I				
SAP Rating	85 B	DER	15.96	TER	16.14				
Environmental	88 B	% DER <ter< td=""><td>40.27</td><td>1.09</td><td>20.70</td></ter<>	40.27	1.09	20.70				
CO <sub>2</sub> Emissions (t/year)  General Requirements Compliance	1.04 Fail	DFEE .	40.37	-1.67	39.70				
		% DFEE <tfee< td=""><td></td><td>-1.07</td><td></td></tfee<>		-1.07					
	Mrs. Jennifer Bantin, Jennifer Bantin, Tel: 01884242050,  Assessor ID  AM89-0001								
Jennirer.bantin@aessc.co.	nnifer.bantin@aessc.co.uk								
SUMARY FOR INPUT DATA FOR New Build (As I	Designed)								
Criterion 1 – Achieving 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 Dioxide Emission Rate (TER)	16.14			kgCO₂/m²					
Dwelling Carbon Dioxide Emission Rate (DER				kgCO₂/m²	Pass				
1b TFEE and DFEE	-0.18 (-1.	.1%)		kgCO₂/m²					
Target Fabric Energy Efficiency (TFEE)	39.70			kWh/m²/yr					
Dwelling Fabric Energy Efficiency (DFEE)	40.37								
Excess energy		0.7 (1.8%) kWh/m²/yr							
Criterion 2 – Limits on design flexibility	<u> </u>			,, , , ,	Fail				
Limiting Fabric Standards		•							
2 Fabric U-values									
	verage	н	ighest						
	27 (max. 0.30)		.27 (max. 0.70)	)	Pass				
	00 (max. 0.20)	-	.27 (IIIaxi 0170)	,	Pass				
	25 (max. 0.25)	0.	.25 (max. 0.70)	)	Pass				
	40 (max. 2.00)								
2a Thermal bridging	,		. ,		Pass				
Thermal bridging calculated from linear t	hermal transmitt	ances for each iur	nction						
3 Air permeability		,							
Air permeability at 50 pascals	6.00 (des	6.00 (design value) m³/(h.m²) @ 50 Pa							
Maximum	10.0								
Limiting System Efficiencies					Pass				
4 Heating efficiency									

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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 Ideal LOGIC COMBI ESP1 35 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	Pass			
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				
7 Low energy lights					
Percentage of fixed lights with low-energy fittings	100 %				
Minimum	75 %	Pass			
8 Mechanical ventilation					
Continuous extract system (decentralised)					
Specific fan power	0.1800 0.1600				
Maximum	0.7	Pass			
Criterion 3 – Limiting the effects of heat gains in sum	mer				
9 Summertime temperature					
Overheating risk (South West England)	Slight	Pass			
Based on:					
Overshading	Average				
Windows facing North	0.87 m², No overhang				
Windows facing East	7.38 m², No overhang				
Windows facing South	0.87 m², No overhang				
Windows facing West	2.91 m², No overhang				
Air change rate	4.00 ach	_			
Blinds/curtains	None				
Criterion 4 – Building performance consistent with D	ER and DFEE rate				
- · · · · · · · · · · · · · · · · · · ·					
Party Walls					
Type	U-value				
	U-value  0.00 W/m²K	Pass			
Туре		Pass			
Type Filled Cavity with Edge Sealing		Pass			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing		Pass			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	0.00 W/m²K	Pass			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	0.00 W/m²K 6.00 (design value) m³/(h.m²) @ 50 Pa				

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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			0	0	Not applicable
Photovoltaic			0	0	Not applicable
Wind turbine			0	0	Not applicable
Totals	£0	£0	B 85	B 88	



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