PREDICTED ENERGY ASSESSMENT



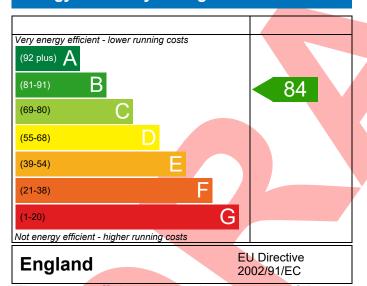
Plot 627, 2B, 1B Dwelling type: Flat, Semi-Detached

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.

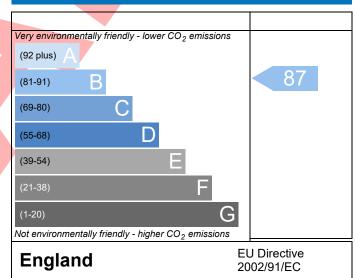
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 (CO₂) Rating



The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO₂) 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		7			ssued on Date	28/07/2023	
Assessment Reference	627		Pr	op Type Ref Ap	ot Type D SF		
Property	Plot 627, 2B, 1B						
SAP Rating		84 B	DER	17.25	TER	17.79	
Environmental		87 B	% DER <ter< td=""><td></td><td>3.05</td><td></td></ter<>		3.05		
CO₂ Emissions (t/year)		1.13	DFEE	46.07	TFEE	48.10	
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>4.21</td><td></td></tfee<>		4.21		
Assessor Details	Mrs. Jennifer Bantin, Jenr Jennifer.bantin@aessc.co)1884242050,		Assessor ID	AM89-0001	
Client							
SUMARY FOR INPUT	Γ DATA FOR New Build (As	Designed)					
Criterion 1 – Achiev	ing the TER and TFEE rate						
1a TER and DER							
Fuel for main hea	Fuel for main heating			Mains gas			
Fuel factor		1.00 (m	ains gas)				
Target Carbon Di	17.79			kgCO ₂ /m ²			
Dwelling Carbon	R) 17.25	17.25 kgCO ₂ /m ²					
		-0.54 (-3	-0.54 (-3.0%) kgCO ₂ /m ²				
1b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)		48.10			kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE)		46.07			kWh/m²/yr		
		-2.0 (-4.	2%)		kWh/m²/yr	Pass	
Criterion 2 – Limits							
Limiting Fabric S							
2 Fabric U-values							
Element		verage		ighest			
External v		.27 (max. 0.30)	· 0.	.27 (max. 0.70)		Pass	
Party wall		.00 (max. 0.20)	-	10 (0 25)		Pass	
		.11 (max. 0.20)		.18 (max. 0.35)		Pass Pass	
Openings 2a Thermal bridg		.40 (max. 2.00)	max. 2.00) 1.40 (max. 3.30)				
	ging calculated from linear	thermal transmit	tances for each im	nction			
3 Air permeabilit		thermal transfillt	tances for each jui	Hellon			
	lity at 50 pascals	6.00.(40	sign value)		n³/(h.m²) @ 50 Pa		
Maximum	10.0	Sigil value)		1 ³ /(h.m²) @ 50 Pa	Pass		
Limiting System	Efficiencies	10.0			- / (II.III / @ 30 Fa	1 033	
4 Heating efficient							
- ricating emitle							

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



Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass		
	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	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				
Continuous extract system (decentralised)				
Specific fan power	0.1800 0.1600			
Maximum	0.7	Pass		
Criterion 3 – Limiting the effects of heat gains in sur	nmer			
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 m ² , No overhang			
Windows facing West	2.91 m ² , No overhang			
Air change rate	4.00 ach			
Blinds/curtains	None			
Criterion 4 – Building performance consistent with	DER and DFEE rate			
Party Walls				
Туре	U-value			
Filled Cavity with Edge Sealing	0.00 W/m²K	Pass		
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals	6.00 (design value) m ³ /(h.m ²) @ 50 Pa			
Maximum	10.0 m ³ /(h.m ²) @ 50 Pa	Pass		
10 Key features				
Party wall U-value	0.00 W/m²K			
Roof U-value 0.11 W/m²K				

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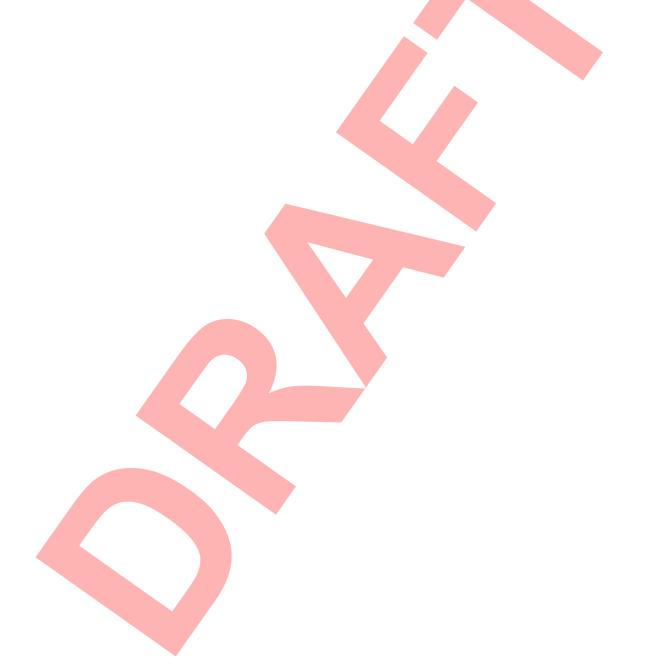


Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

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 84	B 87	



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