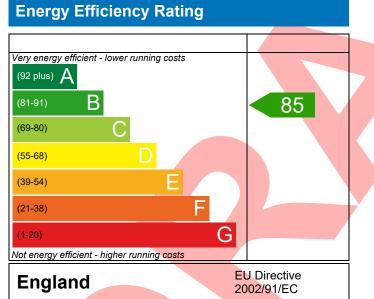


Burnet , Plot 117, 4 Bed, K, WC, B, ES Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 24/10/2023 Jennifer Bantin 120,54 m²

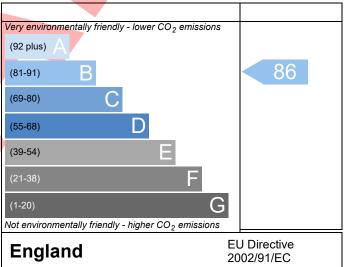
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

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



eference	11/			тор туре кег	Barrier Serni OF		
		117 Prop Type Ref Burnet Semi OP					
	Burnet, Plot 117, 4 Bed,	, K, WC, B, ES					
AP Rating		85 B	DER	15.78	TER	16.21	
nvironmental		86 B	% DER <ter< td=""><td></td><td>2.67</td><td></td></ter<>		2.67		
CO ₂ Emissions (t/year)		1.57	DFEE	45.35	TFEE	50.46	
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>10.12</td><td></td></tfee<>		10.12		
	s. Jennifer Bantin, Jennife nifer.bantin@aessc.co.u		1884242050,		Assessor ID	AM89-0001	
lient							
JMARY FOR INPUT DAT	TA FOR New Build (As D	esigned)					
iterion 1 – Achieving t	he TER and TFEE rate						
a TER and DER							
Fuel for main heating		Mains ga	as				
Fuel factor		1.00 (ma	1.00 (mains gas)				
Target Carbon Dioxid	16.21			kgCO₂/m²			
Dwelling Carbon Dioxide Emission Rate (DER)		15.78			kgCO ₂ /m ²	Pass	
		-0.43 (-2	.7%)		kgCO₂/m²		
TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)		50.46			kWh/m²/yr		
Dwelling Fabric Energ	gy Efficiency (DFEE)	45.35			kWh/m²/yr		
		-5.2 (-10	.3%)		kWh/m²/yr	Pass	
riterion 2 – Limits on de	esign flexibility						
Limiting Fabric Stand	ards						
2 Fabric U-values							
Element	Ave	rage		Highest			
External wall	0.25	5 (max. 0.30)		0.25 (max. 0.70	D)	Pass	
Party wall	0.00) (max. 0.20)		-		Pass	
Floor	0.18	3 (max. 0.25)		0.18 (max. 0.7)	D)	Pass	
Roof	0.17	7 (max. 0.20)		0.17 (max. 0.3	5)	Pass	
Openings	1.34	4 (max. 2.00)		1.40 (max. 3.30	D)	Pass	
2a Thermal bridging						<u>.</u>	
	calculated from linear th	ermal transmitt	ances for each i	unction			
3 Air permeability							
	t EQ pascals	E 01 (do	sign value)		$m^{3}/(h m^{2}) \otimes \Gamma_{0} D_{0}$		
Air permeability at 50 pascals Maximum		10.0			m ³ /(h.m ²) @ 50 Pa m ³ /(h.m ²) @ 50 Pa	-	
		10.0				a PdSS	
Limiting System Efficiency	lencies						

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



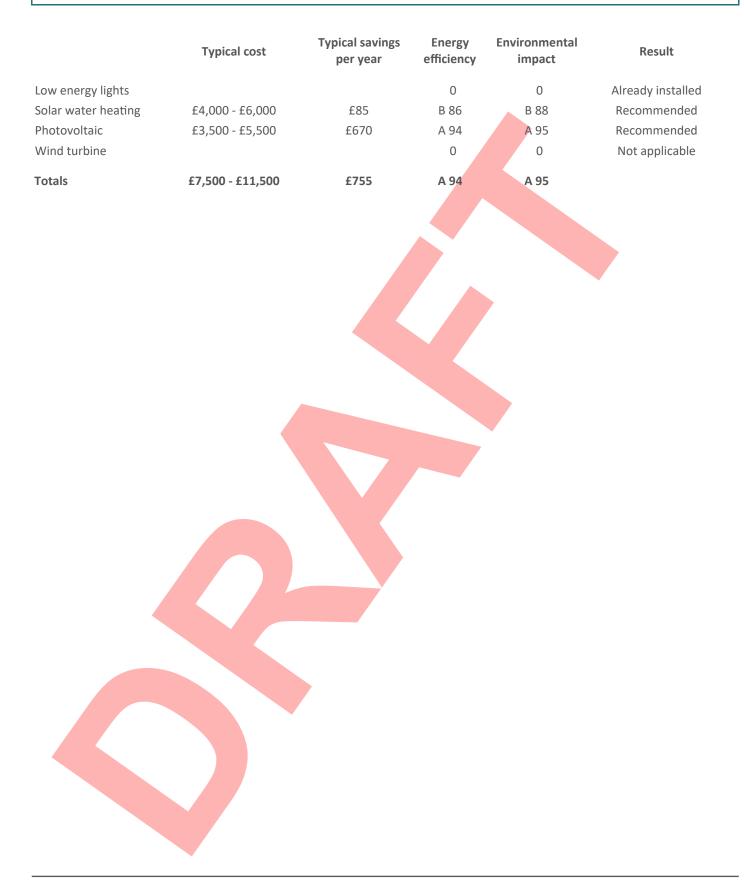
	Detter such as with an distance in the Constant	Pass	
Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database		
	Ideal LOGIC COMBI ESP1 35		
	Combi boiler		
	Efficiency: 89.6% SEDBUK2009		
	Minimum: 88.0%		
Secondary heating system	None		
5 Cylinder insulation			
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			
Continuous extract system (decentralised)			
Specific fan power	0.1700 0.1800		
Maximum	0.7	Pass	
Criterion 3 – Limiting the effects of heat gains in su	mmer		
9 Summertime temperature			
Overheating risk (Thames Valley)	Slight	Pass	
Based on:			
Overshading	Average		
Windows facing North East	9.13 m ² , No overhang		
Windows facing South West	6.25 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			
<u>3 Air permeability</u>			
Air permeability at 50 pascals	5.01 (design value) m ³ /(h.m ²) @ 50 Pa	3	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass	
10 Key features			
Party wall U-value	0.00 W/m ² K		
Door U-value	0.90 W/m²K		
Window U-value	0.90 W/m²K		
Thermal bridging y-value	0.034 W/m²K		

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RECOMMENDATIONS





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