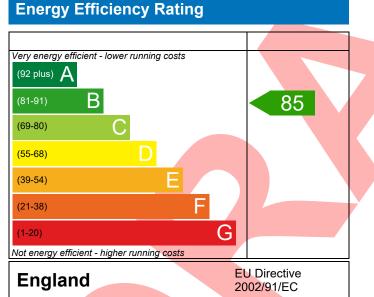


Poplar , Plot 043, 3 Bed, K, B, WC, ES Dwelling type: Date of assessment: Produced by: Total floor area:

House, Semi-Detached 24/10/2023 Jennifer Bantin 118.59 m<sup>2</sup>

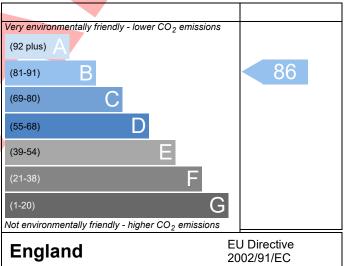
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 (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  $(CO_2)$  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.



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



Property Reference	4907-AM89-6292-04	3				Issued on Date	24/10/2023	
Assessment Reference	043 Prop Type Ref Poplar Semi OP							
Property	Poplar , Plot 043, 3 B	ed. K. B. V	NC. ES					
AP Rating			85 B	DER	15.82	TER	16.23	
invironmental			86 B	% DER <ter< th=""><th>15.62</th><th>2.51</th><th>10.25</th></ter<>	15.62	2.51	10.25	
CO <sub>2</sub> Emissions (t/year)			1.55	DFEE	46.02	TFEE	51.08	
General Requirements Compliance			Pass	% DFEE <tfee< td=""><td></td><td>9.90</td><td>51.00</td></tfee<>		9.90	51.00	
Assessor Details Mrs. Jennifer Bantin, Jennifer			tin, Tel: 0	1884242050,		Assessor ID	AM89-0001	
lient	nnifer.bantin@aessc.c	O.UK						
	ATA FOR New Build (A	s Designe	d)					
	the TER and TFEE rate							
a TER and DER								
Fuel for main heatin	g		Mains ga	as				
Fuel factor			1.00 (ma					
Target Carbon Dioxide Emission Rate (TER)			16.23			kgCO <sub>2</sub> /m <sup>2</sup>		
Dwelling Carbon Dioxide Emission Rate (DER)			15.82			kgCO <sub>2</sub> /m <sup>2</sup>	Pass	
			-0.41 (-2	.5%)		kgCO <sub>2</sub> /m <sup>2</sup>		
D TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)			51.08 kWh/m²/yr					
Dwelling Fabric Ener	gy Efficiency (DFEE)		46.02	7		kWh/m²/yr		
			-5.1 (-10	.0%)		kWh/m²/yr	Pass	
riterion 2 – Limits on o	design flexibility							
Limiting Fabric Stan	dards							
2 Fabric U-values								
Element		Average			Highest			
External wall		0.25 (max	. 0.30)		0.25 (max. 0.7	(0)	Pass	
Party wall			x. 0.20) -			,	Pass	
Floor						(0)	Pass	
Roof	0.17 (ma		,		0.17 (max. 0.3	,	Pass	
· ·		1.35 (max	,				Pass	
2a Thermal bridging		·	,		,	,		
	calculated from linear	r thermal	transmitt	ances for each	iunction			
<u>3 Air permeability</u>			ci anonne		Janetion			
			5.01 (design value)				m³/(h.m²) @ 50 Pa	
Air permeability at 50 pascals			10.0			] m²/(n.m²) @ 50 Pa ] m³/(h.m²) @ 50 Pa		
Maximum			10.0			(II.III <sup>_</sup> ) @ 50 Pa	Pass	
Limiting System Effi	ciencies							
4 Heating efficiency								

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



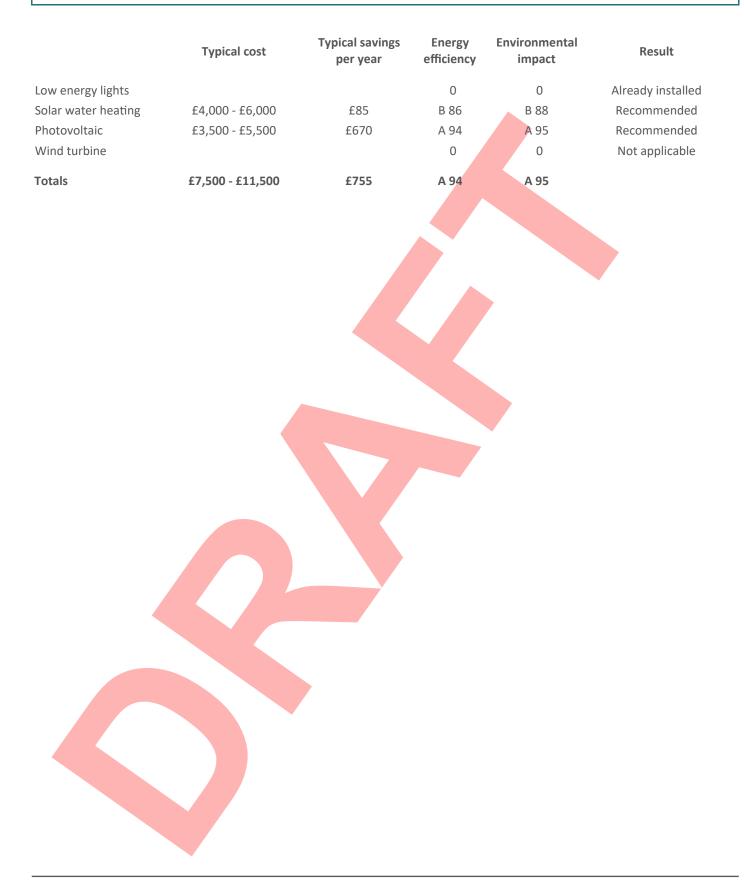
Main heating system       Boiler system with radiators or underfloor - Mains gas         Data from database       Ideal LOGIC COMBI ESP1 35         Combi boiler       Efficiency: 89.6% SEDBUK2009         Minimum: 88.0%       Secondary heating system         Secondary heating system       None         5 Cylinder insulation       None         Hot water storage       No cylinder         Space heating controls       Programmer, room thermostat and TRVs         Hot water controls       No cylinder         Soller interlock       Yes         7 Low energy lights       State from database	Pass
5 Cylinder insulation         Hot water storage         No cylinder         6 Controls         Space heating controls         Hot water controls         Boiler interlock	
Hot water storage       No cylinder         6 Controls       Programmer, room thermostat and TRVs         Space heating controls       Programmer, room thermostat and TRVs         Hot water controls       No cylinder         Boiler interlock       Yes	
6 Controls       Programmer, room thermostat and TRVs         Space heating controls       Programmer, room thermostat and TRVs         Hot water controls       No cylinder         Boiler interlock       Yes	
Space heating controlsProgrammer, room thermostat and TRVsHot water controlsNo cylinderBoiler interlockYes	
Hot water controlsNo cylinderBoiler interlockYes	
Boiler interlock Yes	Pass
7 Low energy lights	Pass
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 summer	
<u>9 Summertime temperature</u>	
Overheating risk (Thames Valley)	Pass
Based on:	
Overshading Average	
Windows facing North East 6.71 m <sup>2</sup> , No overhang	
Windows facing South West9.97 m², No overhangWindows facing North West2.31 m², No overhang	
Air change rate 4.00 ach	=
Blinds/curtains	
Criterion 4 – Building performance consistent with DER and DFEE rate	
Party Walls	
Type U-value	
Filled Cavity with Edge Sealing 0.00 W/m <sup>2</sup> K	Pass
Air permeability and pressure testing	
3 Air permeability	
Air permeability at 50 pascals5.01 (design value)m³/(h.m²) @ 50 Pa	
Maximum 10.0 m³/(h.m²) @ 50 Pa	Pass
10 Key features	
10 Key features       Party wall U-value       0.00   W/m²K	

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## RECOMMENDATIONS





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