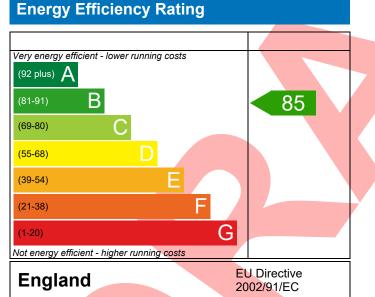


Poplar , Plot 036, 3 Bed, K, B, WC, ES Dwelling type: Date of assessment: Produced by: Total floor area:

House, End-Terrace 24/10/2023 Jennifer Bantin 118.59 m<sup>2</sup>

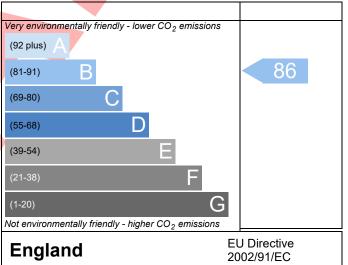
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Assessment Reference	036 Prop Type Ref Poplar End OP						
Property	Poplar , Plot 036,	3 Bed, K, B,	WC, ES				
SAP Rating			85 B	DER	15.82	TER	16.23
Environmental			86 B	% DER <ter< th=""><th></th><th>2.51</th><th></th></ter<>		2.51	
CO₂ 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></td></tfee<>		9.90	
	Ars. Jennifer Bantin, . ennifer.bantin@aess		ntin, Tel: C	)1884242050,		Assessor ID	AM89-0001
Client							
UMARY FOR INPUT D	OATA FOR New Build	(As Design	ed)				
riterion 1 – Achieving	g the TER and TFEE ra	ate					
a TER and DER							
Fuel for main heati	ng		Mains g	as			
Fuel factor			1.00 (ma	ains gas)			
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	2.5%)		kgCO <sub>2</sub> /m <sup>2</sup>	
b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)			51.08 kWh/m²/yr				
Dwelling Fabric Ene	ergy Efficiency (DFEE)		46.02			kWh/m²/yr	
			-5.1 (-10	0.0%)		kWh/m²/yr	Pass
riterion 2 – Limits on	design flexibility			_			
Limiting Fabric Sta	ndards						
2 Fabric U-values							
Element		Average			Highest		
External wa	I	0.25 (ma	x. 0.30)		0.25 (max. 0.7	0)	Pass
Party wall		0.00 (ma	x. 0.20)		-		Pass
Floor 0.18 (		0.18 (ma	x. 0.25)		0.18 (max. 0.70)		Pass
Roof 0.17 (		0.17 (ma	x. 0.20)		0.17 (max. 0.3	0.17 (max. 0.35)	
Openings 1.35 (		1.35 (ma	nax. 2.00) 1.40 (max			0)	Pass
2a Thermal bridgin	lg						
Thermal bridgir	ng calculated from lin	ear therma	l transmit	tances for each	junction		
3 Air permeability							
Air permeability at 50 pascals			5.01 (design value)			m³/(h.m²) @ 50 Pa	
Maximum			10.0			m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa Pass	
Limiting System Ef	ficiencies		·				
Limiting System Fr							

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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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