PREDICTED ENERGY ASSESSMENT

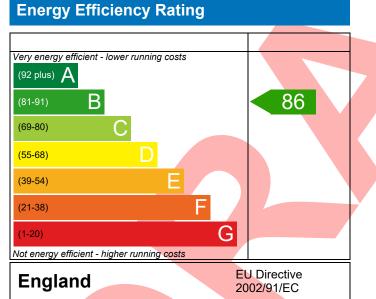


2 bed, K, B, ES Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, End-Terrace 25/03/2022 Silvio Junges 70.22 m²

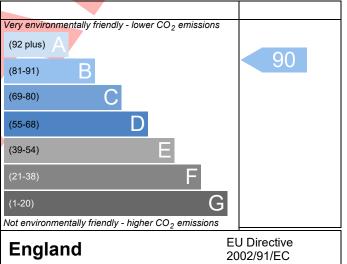
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Property Reference	4907-0015-4292-	4907-0015-4292-J209 Issued on Date 25/03/20					
Assessment Reference	J209	J209 Prop Type Ref J209 - 2FF - End					
Property	2 bed, K, B, ES						
	2 500, 10, 5, 25		06.0	050	42.66	750	4.4.45
SAP Rating			86 B 90 B	DER % DER <ter< th=""><th>13.66</th><th>TER 5.44</th><th>14.45</th></ter<>	13.66	TER 5.44	14.45
Environmental CO ₂ Emissions (t/year)			0.79	DFEE	28.85	TFEE	28.57
General Requirements Compliance			Fail	% DFEE <tfee< td=""><td></td><td>-0.99</td><td>20.37</td></tfee<>		-0.99	20.37
Assessor Details	Mr. Silvio Junges, Silv silvio.junges@aessou	-		242050,		Assessor ID	P637-0001
Client	silvio.junges@aessou		.uk				
SUMARY FOR INPUT	DATA FOR New Build	(As Des	igned)				
Criterion 1 – Achievin		-					
<u>1a TER and DER</u>	0						
Fuel for main heating			Mains gas				
Fuel factor			1.00 (ma				
Target Carbon Dioxide Emission Rate (TER)			14.45 kgCO ₂ /m ²				_
Dwelling Carbon Dioxide Emission Rate (DER)			13.66			kgCO ₂ /m ²	Pass
			-0.79 (-5	.5%)		kgCO ₂ /m ²	
<u>1b TFEE and DFEE</u>							
Target Fabric Energy Efficiency (TFEE)						kWh/m²/yr	
Dwelling Fabric Energy Efficiency (DFEE)			28.85			kWh/m²/yr kWh/m²/yr	Fail
Excess energy Criterion 2 – Limits or	n design flevihility		0.2 (0.77	0)			Fall
Limiting Fabric Sta				·			
2 Fabric U-values							
Element		Avera	age		Highest		
External wa	all		max. 0.30)		0.19 (max. 0.1	70)	Pass
Party wall			max. 0.20)		-	- /	Pass
Openings			(max. 2.00)		1.40 (max. 3.3	30)	Pass
2a Thermal bridgi	ng						
Thermal bridgi	ng calculated from lir	near the	rmal transmitt	ances for each	junction		
3 Air permeability							
Air permeability at 50 pascals			5.00 (design value)			m³/(h.m²) @ 50 Pa	
Maximum			10.0			m³/(h.m²) @ 50 Pa	Pass
Limiting System Ef	fficiencies						
<u>4 Heating efficient</u>	CY CY						

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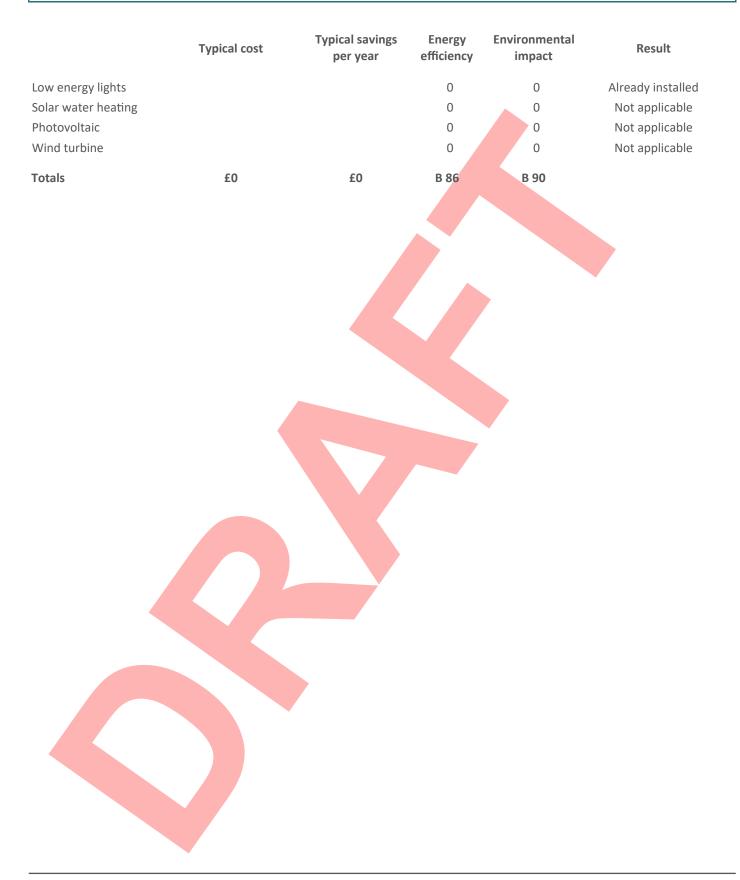
Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database	Pass
	Ideal LOGIC COMBI ESP1 30	
	Combi boiler Efficiency: 89.6% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating 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	0.2000 0.1800	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in sum	mer	
9 Summertime temperature		
Overheating risk (Southern England) Based on:	Slight	Pass
Overshading	Average	
Windows facing East	11.13 m ² , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with DI	ER and DFEE rate	
Party Walls		
Туре	U-value	
Filled Cavity with Edge Sealing	0.00 W/m²K	Pass
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	5.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
<u>10 Key features</u>		
Party wall U-value	0.00 W/m²K	
Party wall U-value	0.00 W/m²K	
Door U-value		
	0.90 W/m²K	

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RECOMMENDATIONS





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