PREDICTED ENERGY ASSESSMENT

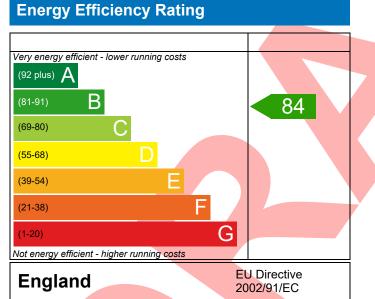


Plot 007, 2 Bed, K, B Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Detached 20/10/2022 Silvio Junges 71.17 m²

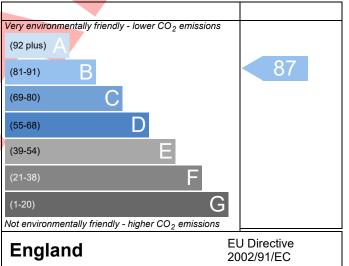
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

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



Reference							
Property	Plot 007, 2 Bed, K,	В					
SAP Rating			84 B	DER	17.25	TER	18.91
Environmental			87 B	% DER <ter< td=""><td></td><td>8.78</td><td></td></ter<>		8.78	
CO ₂ Emissions (t/year)			1.00	DFEE	45.97	TFEE	52.81
General Requirements Compliance			Pass	% DFEE <tfee< td=""><td></td><td>12.95</td><td></td></tfee<>		12.95	
	/Ir. Silvio Junges, Silvio ilvio.junges@aessc.co	-	, Tel: 01884	242050,		Assessor ID	P637-0001
Client							
JMARY FOR INPUT D	OATA FOR New Build (As Desi	gned)				
riterion 1 – Achieving	g the TER and TFEE ra	te					
a TER and DER							
Fuel for main heating			Mains ga	as			
Fuel factor			1.00 (mains gas)				
Target Carbon Dioxide Emission Rate (TER)			18.91			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)			17.25			kgCO ₂ /m ²	Pass
			-1.66 (-8	.8%)		kgCO ₂ /m ²	
b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)			52.81			kWh/m²/yr	
Dwelling Fabric Ene	ergy Efficiency (DFEE)		45.97	00()		kWh/m²/yr	Dees
riterion 2 – Limits on	docian flovibility		-6.8 (-12	.9%)		kWh/m²/yr	Pass
Limiting Fabric Sta							
<u>2 Fabric U-values</u>	nuarus						
<u>Z Fabric O-Values</u> Element		Avora			Highest		
External wa		Averag	nax. 0.30)		0.24 (max. 0.7)	۱ د	Pass
Party wall			nax. 0.30) nax. 0.20)			5)	Pass
Roof			nax. 0.20) nax. 0.20)		0.11 (max. 0.3	5)	Pass
Openings			nax. 2.00)		1.20 (max. 3.3)		Pass
2a Thermal bridgin	Ig		/		- (- /	
	ing calculated from line	ear ther	nal transmit	ances for each	iunction		
3 Air permeability							
Air permeability at 50 pascals			5.01 (design value)			m³/(h.m²) @ 50 Pa	9
Maximum			10.0			m ³ /(h.m ²) @ 50 Pa	
	ficiencies						
Limiting System Eff							

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Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass		
main heating system	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		
erion 3 – Limiting the effects of heat gains in su	mmer			
ummertime temperature				
Overheating risk (Southern England)	Medium	Pass		
ed on:				
Overshading	Average			
Windows facing North	1.66 m ² , No overhang			
Windows facing East	7.15 m ² , No overhang			
Windows facing West	8.57 m ² , No overhang			
Air change rate	4.00 ach			
Blinds/curtains	None			
erion 4 – Building performance consistent with	DER and DFEE rate			
Party Walls				
Туре	U-value			
	U-value W/m²K	Pas		
Air permeability and pressure testing		Pas		
	W/m²K	Pas		
Air permeability and pressure testing		Pas		
Air permeability and pressure testing <u>3 Air permeability</u>	W/m²K	Pass		
Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals	W/m²K 5.01 (design value) m³/(h.m²) @ 50 Pa			

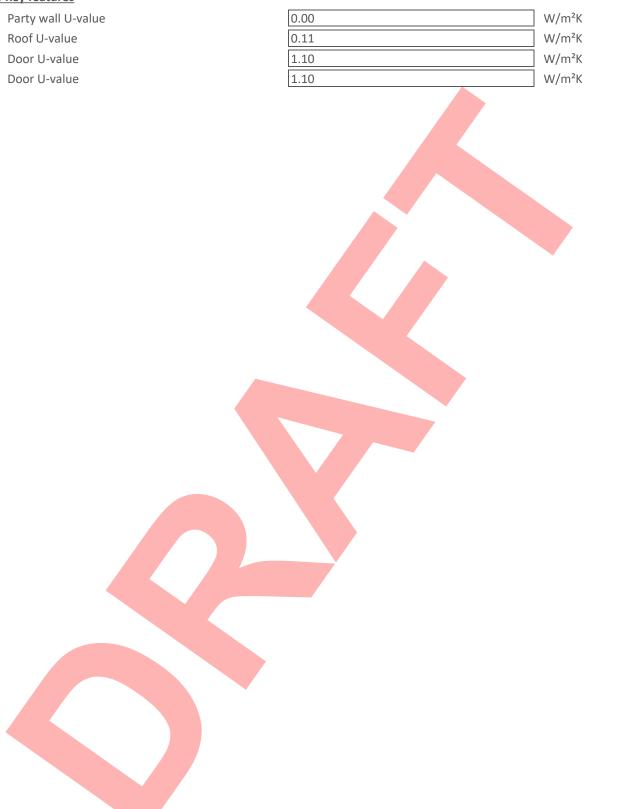
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10 Key features



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RECOMMENDATIONS





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