PREDICTED ENERGY ASSESSMENT

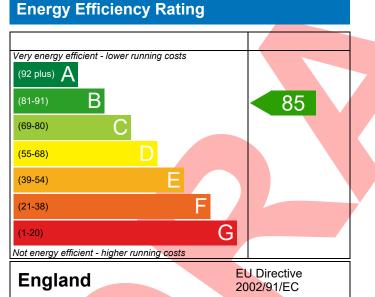


Plot 006, 2 Bed, K, B Dwelling type: Date of assessment: Produced by: Total floor area:

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

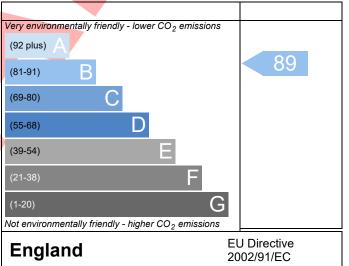
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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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Page 1 of 4

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



Property Reference	4907-0023-595	4907-0023-5953-006 Issued on Date 20/10/2022					
Assessment Reference	Plot 006	Plot 006 Prop Type Ref F05L - Semi Stag (As)					
Property	Plot 006, 2 Bed,	К, В					
SAP Rating			85 B	DER	14.82	TER	16.57
Environmental		89 B	% DER <ter< td=""><td></td><td>10.56</td><td></td></ter<>		10.56		
CO ₂ Emissions (t/year)		0.84	DFEE	35.10	TFEE	40.02	
General Requirements Compliance			Pass	% DFEE <tfee< td=""><td></td><td>12.29</td><td></td></tfee<>		12.29	
Assessor Details	Mr. Silvio Junges, Si silvio.junges@aesso	-	s, Tel: 01884	242050,		Assessor ID	P637-0001
Client							
SUMARY FOR INPUT	DATA FOR New Bu	ild (As Des	igned)				
Criterion 1 – Achievi	ng the TER and TFE	rate					
1a TER and DER							
Fuel for main heating			Mains gas				
Fuel factor			1.00 (mains gas)				
Target Carbon Dioxide Emission Rate (TER)			16.57			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)			14.82			kgCO ₂ /m ²	Pass
			-1.75 (-1	10.6%)		kgCO ₂ /m ²	
<u>1b TFEE and DFEE</u>							
Target Fabric Energy Efficiency (TFEE)			40.02 kWh/m²/yr				
Dwelling Fabric E	nergy Efficiency (DFI	EE)	35.10			kWh/m²/yr	
			-4.9 (-12	2.3%)		kWh/m²/yr	Pass
Criterion 2 – Limits o				-			
Limiting Fabric St	andards						
2 Fabric U-values							
Element		Avera	ige		Highest		
External wall 0.24			max. 0.30) 0.24 (max. 0			0)	Pass
Party wall		0.00 (max. 0.20)		-		Pass
Openings 1.19 (max. 2.00) 1.20 (max. 3			D)	Pass
<u>2a Thermal bridg</u>	ing						
Thermal bridg	ing calculated from	linear ther	mal transmit	tances for each j	unction		
<u>3 Air permeabilit</u>	Y						
Air permeability at 50 pascals			5.01 (design value)			m³/(h.m²) @ 50 Pa	
Maximum			10.0			m³/(h.m²) @ 50 Pa	Pass
Limiting System E	fficiencies						
4 Heating efficien	псу						

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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	Pass
	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 fittings	100 %	
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	
<u>9 Summertime temperature</u>		
Overheating risk (Southern England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North	4.51 m ² , No overhang	
Windows facing East Windows facing South	1.91 m ² , No overhang 7.73 m ² , No overhang	
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with		
Party Walls		
Type	U-value	
Filled Cavity with Edge Sealing	0.00 W/m ² K	Pass
Air permeability and pressure testing		1000
3 Air permeability		
Air permeability at 50 pascals	5.01 (design value) m ³ /(h.m ²) @ 50 l	Pa
Maximum	10.0 m ³ /(h.m ²) @ 50 l	
10 Key features		L
Party wall U-value	0.00 W/m²K	
Door U-value	1.10 W/m²K	

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RECOMMENDATIONS





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