PREDICTED ENERGY ASSESSMENT



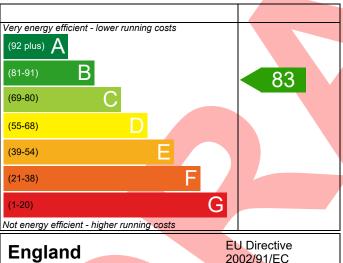
Plot 396, 1 Bed, Dwelling type: Flat, Semi-Detached

K, B Date of assessment: 20/12/2022
Produced by: Silvio Junges
Total floor area: 51.21 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.

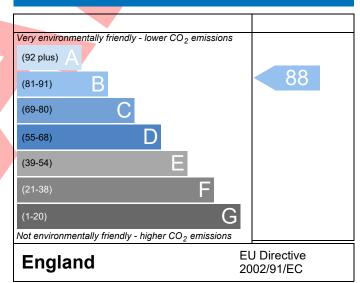
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



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 (CO₂) 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)



Property Reference					ssued on Date	20/12/2022		
Assessment Reference	Plot 396 Prop Type Ref TFF-As-Semi							
Property	Plot 396, 1 Bed, K, B							
SAP Rating		83 B	DER	18.92	TER	19.56		
Environmental		88 B	% DER <ter< td=""><td></td><td>3.28</td><td></td></ter<>		3.28			
CO₂ Emissions (t/year)		0.82	DFEE	44.98	TFEE	46.25		
General Requireme	ents Compliance	Pass	% DFEE <tfee< td=""><td></td><td>2.73</td><td></td></tfee<>		2.73			
Assessor Details	Mr. Silvio Junges, Silvio Jusilvio.junges@aessc.co.uk	•	242050,		Assessor ID	P637-0001		
Client								
SUMARY FOR INPUT	Γ DATA FOR New Build (As	Designed)						
Criterion 1 – Achievi	ing the TER and TFEE rate							
1a TER and DER								
Fuel for main hea	Fuel for main heating							
Fuel for main heating Fuel factor 1.00 (mains gas)								
Target Carbon Di	19.56	19.56 kgCO ₂ /m ²						
Dwelling Carbon	R) 18.92	18.92 kgCO ₂ /m ²						
		-0.64 (-3	-0.64 (-3.3%) kgCO ₂ /m ²					
1b TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)		46.25			kWh/m²/yr kWh/m²/yr			
Dwelling Fabric Energy Efficiency (DFEE)			44.98					
		-1.2 (-2.	6%)		kWh/m²/yr	Pass		
Criterion 2 – Limits	•		_					
Limiting Fabric S								
2 Fabric U-values	<u>s</u>							
Element		verage		ighest				
External w		.25 (max. 0.30)	0.	.25 (max. 0.70)		Pass		
Party wall		.00 (max. 0.20)	-	17 (0.05)		Pass		
		.17 (max. 0.20)		.17 (max. 0.35)		Pass Pass		
Openings		.40 (max. 2.00)	max. 2.00) 1.40 (max. 3.30)					
2a Thermal bridg		thormal transcri	topoor for each to	nation				
	ging calculated from linear	transmit	tances for each Jul	nction				
3 Air permeabilit		F 04 / 1	scian valua)		า³/(h.m²) @ 50 Pa			
Air permeabil Maximum								
	Efficiencies	10.0		m	n³/(h.m²) @ 50 Pa	Pass		
Limiting System								
4 Heating efficien	ncy							

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	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	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	
6 Controls		_
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	70	
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 sum	mer	
9 Summertime temperature		
Overheating risk (Thames Valley)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North East	0.96 m ² , No overhang	\neg
Willdows facilig North East	0.50 m , No overnang	
Windows facing South East	4.34 m², No overhang	
Windows facing South East Windows facing North West		
Windows facing South East Windows facing North West Air change rate	4.34 m², No overhang 1.68 m², No overhang 6.00 ach	
Windows facing South East Windows facing North West	4.34 m², No overhang 1.68 m², No overhang	
Windows facing South East Windows facing North West Air change rate	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None	
Windows facing South East Windows facing North West Air change rate Blinds/curtains	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None	
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None	
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate	Pass
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value	Pass
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K	Pass
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 Pa	
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K	Pass
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 Pa	
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 Pa	
Windows facing South East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 10 Key features	4.34 m², No overhang 1.68 m², No overhang 6.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa	

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r19

RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating			0	0	Not applicable
Photovoltaic			0	0	Not applicable
Wind turbine			0	0	Not applicable
Totals	£0	£0	B 83	B 88	



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