PREDICTED ENERGY ASSESSMENT



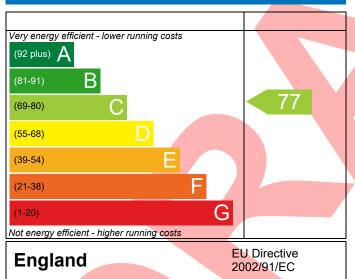
Plot 045 Dwelling type: Maisonette, Semi-Detached

Date of assessment: 29/02/2024
Produced by: Maja Stanisz
Total floor area: 65.79 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.

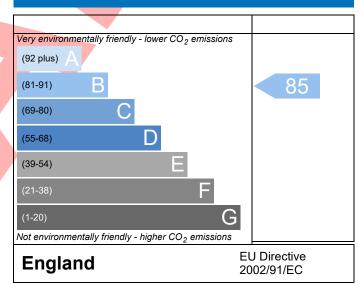
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 4907-Q919-6605-04	5.			Issued on Date	29/02/2024			
Assessment Plot 045								
Reference Plot 045								
<u> </u>								
SAP Rating	77 C	DER	20.58	TER	20.75			
Environmental	85 B	% DER <ter< td=""><td></td><td>0.80</td><td></td></ter<>		0.80				
CO ₂ Emissions (t/year)	1.16	DFEE	43.64	TFEE	51.62			
General Requirements Compliance	Pass	% DFEE <tfee< td=""><td></td><td>15.45</td><td></td></tfee<>		15.45				
Assessor Details Miss Maja Stanisz, Maja		581 875,		Assessor ID	Q919-0001			
	maja.stanisz@aessc.co.uk							
Client								
SUMARY FOR INPUT DATA FOR New Build (A								
Criterion 1 – Achieving the TER and TFEE rate	e							
1a TER and DER								
Fuel for main heating	Bulk LPG							
Fuel factor	1.06 (LPC	G)						
Target Carbon Dioxide Emission Rate (TER) 20.75 kgCO ₂ /m ²								
Dwelling Carbon Dioxide Emission Rate (D				kgCO ₂ /m ²	Pass			
1b TFEE and DFEE	-0.17 (-0	.8%)		kgCO ₂ /m ²				
	51.62			IAMb/m²/ur				
Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE)	43.64							
Dwelling rabile thergy timelency (Di LL)	-8.0 (-15	5%)		kWh/m²/yr				
Criterion 2 – Limits on design flexibility	0.0 (23	.570/			1 033			
Limiting Fabric Standards		_						
2 Fabric U-values								
	Average	Hi	ghest					
	0.25 (max. 0.30)		26 (max. 0.70	0)	Pass			
	0.00 (max. 0.20)	-	(-,	Pass			
	0.11 (max. 0.20)							
Openings	1.29 (max. 2.00)							
2a Thermal bridging								
Thermal bridging calculated from linea	ar thermal transmitt	ances for each jur	nction					
3 Air permeability								
Air permeability at 50 pascals	4.60 (de	4.60 (design value) m ³ /(h.m ²) @ 50 Pa						
Maximum	10.0			m ³ /(h.m ²) @ 50 P				
Limiting System Efficiencies								
4 Heating efficiency								

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

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



Main heating system	Boiler system with radiators or underfloor - Bulk LPG Data from database Ideal LOGIC COMBI ESP1 30P Combi boiler Efficiency: 90.7% SEDBUK2009 Minimum: 88.0%			
Secondary heating system	None			
5 Cylinder insulation				
Hot water storage	No cylinder			
<u>6 Controls</u>				
Space heating controls	Time and temperature zone control	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		
Criterion 3 – Limiting the effects of heat gains in sun 9 Summertime temperature				
Overheating risk (South East England)	Slight	Pass		
Based on:		_		
Overshading	Average			
Windows facing North East	3.00 m², No overhang			
Windows facing South East Windows facing South West	1.20 m ² , No overhang 1.50 m ² , No overhang			
Air change rate	4.00 ach			
Blinds/curtains	None			
Criterion 4 – Building performance consistent with I				
Party Walls	SER UND STEET URC			
Type	U-value			
Filled Cavity with Edge Sealing	0.00 W/m²K	Pass		
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals	4.60 (design value) m ³ /(h.m ²) @ 50 Pa			
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass		
10 Key features				
Party wall U-value	0.00 W/m²K			
Roof U-value	0.09 W/m²K			
Door U-value	0.90 W/m²K			
	/*********************************			

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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	C 77	B 85	



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