PREDICTED ENERGY ASSESSMENT



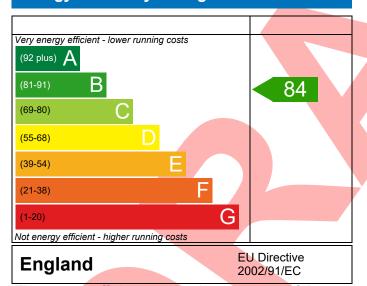
Plot 151, 2 Bed, Dwelling type: Flat, Semi-Detached

K+B Date of assessment: 22/09/2020
Produced by: Kieran Davies
Total floor area: 69.65 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.

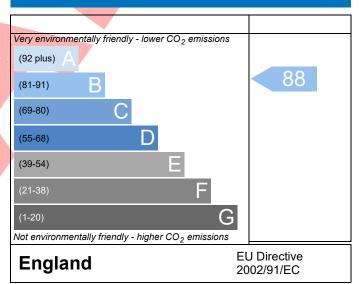
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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.

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



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



Property Reference	e 4907-0012-4592-151				Issued on Date	22/09/2020		
Assessment	Plot 151		Pro	op Type Ref	Flat Type 16 1F			
Reference								
Property	Plot 151, 2 Bed, K+B							
SAP Rating		84 B	DER	16.53	TER	17.60		
Environmental		88 B	% DER <ter< td=""><td></td><td>6.10</td><td></td></ter<>		6.10			
CO₂ Emissions (t/year)		1.00	DFEE	42.84	TFEE	45.59		
General Requirem	ents Compliance	Pass	% DFEE <tfee< td=""><td></td><td>6.03</td><td></td></tfee<>		6.03			
Assessor Details	Mr. Kieran Davies, Kieran Da	avies , Tel: 0188	34 242050,		Assessor ID	T716-0001		
	Kieran.davies@aessc.co.uk							
Client	South, Countryside NH & C							
SUMARY FOR INPU	T DATA FOR New Build (As De	esigned)						
Criterion 1 – Achiev	ving the TER and TFEE rate							
1a TER and DER								
Fuel for main he	eating	Mains ga	as					
Fuel factor		1.00 (ma	1.00 (mains gas)					
Target Carbon D	Dioxide Emission Rate (TER)	17.60	17.60 kgCO ₂ /m ²					
Dwelling Carbor	n Dioxide Emission Rate (DER)	16.53	16.53 kgCO ₂ /m ²					
		-1.07 (-6	.1%)		kgCO ₂ /m ²			
1b TFEE and DFEE								
_	nergy Efficiency (TFEE)	45.59		-	kWh/m²/yr			
Dwelling Fabric	Energy Efficiency (DFEE)	42.84						
		-2.8 (-6.1	1%)		kWh/m²/yr	Pass		
	on design flexibility							
Limiting Fabric								
2 Fabric U-value	es							
Element		rage		ighest				
External		3 (max. 0.30)	0.:	18 (max. 0.7)	0)	Pass Pass		
Party wa			(max. 0.20) -					
Openings		.24 (max. 2.00) 1.63 (max. 3.30)						
2a Thermal brid								
	dging calculated from linear th	ermal transmitt	cances for each jun	nction				
3 Air permeabil		7						
	ility at 50 pascals		sign value)		m ³ /(h.m ²) @ 50 P			
Maximum		10.0			m ³ /(h.m ²) @ 50 P	a Pass		
Limiting System	Efficiencies							
4 Heating efficient	ency							

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Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Potterton ASSURE 36 COMBI Combi boiler Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%	Pass
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 fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1900 0.1800	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in sum	mer	
9 Summertime temperature		
Overheating risk (South East England)	Slight	Pass
Based on:		_
Overshading	Average	
Windows facing North	4.38 m², No overhang	
Windows facing East Windows facing West	3.99 m², No overhang 10.74 m², No overhang	
Air change rate	6.00 ach	<u> </u>
Blinds/curtains	None	<u> </u>
Criterion 4 – Building performance consistent with D		
Party Walls		
Туре	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	5.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m ³ /(h.m ²) @ 50 Pa	Pass
10 Key features		
Party wall U-value	0.00 W/m²K	
Door U-value	1.00 W/m²K	
▼ · · · · · · · · · · · · · · · · · · ·		

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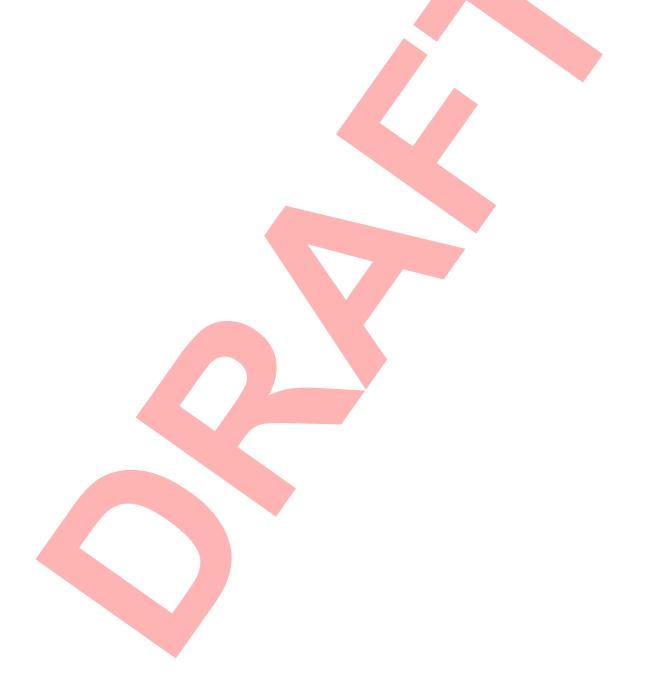


Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.12r02

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 84	B 88	



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