PREDICTED ENERGY ASSESSMENT



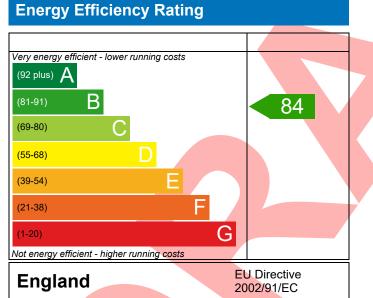
Plot 486, 2 Bed, 1B

Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Detached 07/01/2021 Mitchell Bennellick 70.29 m²

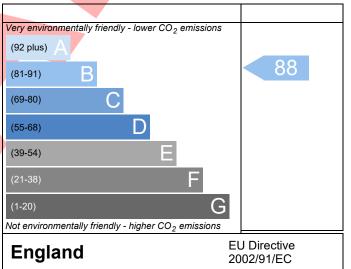
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

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



Page 1 of 4

Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16

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



Property Reference	4907-0012-4686-486				Issued on Date	07/01/2021	
Assessment	486		Prop Type Ref 2BF - First Floor				
Reference							
Property	Plot 486, 2 Bed, 1B						
SAP Rating		84 B	DER	16.77	TER	16.87	
Environmental		88 B	% DER <ter< td=""><td></td><td>0.61</td><td></td></ter<>		0.61		
CO ₂ Emissions (t/year)		0.97	DFEE	42.25	TFEE	40.73	
General Requirements Compliance		Fail	% DFEE <tfee< td=""><td></td><td>-3.74</td><td></td></tfee<>		-3.74		
	/Ir. Mitchell Bennellick, M nitchell.bennellick@aesso		k, Tel: 01884 242	050,	Assessor ID	P635-0001	
Client	Crest Nicholson, CN						
SUMARY FOR INPUT D	OATA FOR New Build (As	Designed)					
Criterion 1 – Achievin	g the TER and TFEE rate						
1a TER and DER							
Fuel for main heating		Mains ga	as				
Fuel factor		1.00 (ma					
Target Carbon Dio>	16.87			kgCO₂/m²			
Dwelling Carbon Dioxide Emission Rate (DER)		R) 16.77			kgCO₂/m²	Pass	
		-0.10 (-0	.6%)		kgCO ₂ /m ²		
1b TFEE and DFEE							
Target Fabric Energy Efficiency (TFEE)		40.73			kWh/m²/yr		
Dwelling Fabric Energy Efficiency (DFEE)		42.25			kWh/m²/yr		
Excess energy		1.6 (3.9%	(6)		kWh/m²/yr	Fail	
Criterion 2 – Limits on	design flexibility		_				
Limiting Fabric Sta	ndards						
2 Fabric U-values							
Element	A	verage		Highest			
External wa		25 (max. 0.30)		0.28 (max. 0.70))	Pass	
Openings 1.39 (n		39 (max. 2.00)	ax. 2.00) 1.40 (max. 3.30)			Pass	
2a Thermal bridgin	lg						
Thermal bridgir	ng calculated from linear t	thermal transmit	tances for each j	unction			
<u>3 Air permeability</u>							
Air permeability at 50 pascals		4.00 (de	4.00 (design value) m ³			a	
Maximum		10.0			m³/(h.m²) @ 50 P	a Pass	
Limiting System Ef	ficiencies						
4 Heating efficience	Y						
Main heating sy	Data fro Potterto Combi b Efficienc	Boiler system with radiators or underfloor - Mains gas Data from database Potterton Assure 30 Combi Combi boiler Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%					

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)



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		1 435		
Continuous extract system	0.16]		
Specific fan power				
Maximum	0.7	Pass		
Criterion 3 – Limiting the effects of heat gains in sum	mer			
<u>9 Summertime temperature</u>				
Overheating risk (South East England)	Not significant	Pass		
Based on:				
Overshading	Average			
Windows facing North	2.05 m ² , No overhang			
Windows facing East Windows facing South	1.51 m ² , No overhang 8.64 m ² , No overhang			
Air change rate	6.00 ach]		
Blinds/curtains	None]		
Criterion 4 – Building performance consistent with D				
Air permeability and pressure testing				
<u>3 Air permeability</u>				
Air permeability at 50 pascals	4.00 (design value) m ³ /(h.m ²) @ 50 Pa			
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass		
<u>10 Key features</u>				
None	N/A			

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



RECOMMENDATIONS





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



Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16