PREDICTED ENERGY ASSESSMENT



Plot 091, 2 Bed, Dwelling type: Flat, Semi-Detached

K, B Date of assessment: 10/10/2019

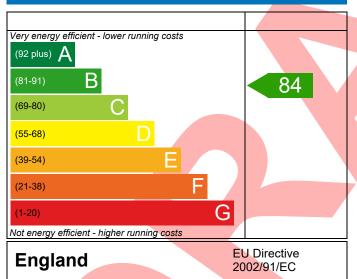
Produced by: Mitchell Bennellick

Total floor area: 70.26 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.

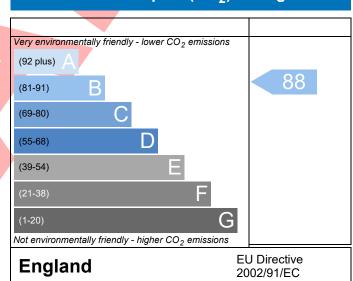
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 4907-0012-4615	-091				Issued on Date	10/10/2019		
Assessment 091			Pro	op Type Ref	2BF - 1FF - Semi			
Reference Property Plot 001, 3 Pod	V D							
Property Plot 091, 2 Bed,	к, в							
SAP Rating		84 B	DER	16.47	TER	18.66		
Environmental		88 B	% DER <ter< td=""><td></td><td>11.73</td><td></td></ter<>		11.73			
CO ₂ Emissions (t/year)		0.97	DFEE	41.34	TFEE	49.42		
General Requirements Compliance Pass % DFEE <tfee 16.34<="" td=""></tfee>								
Assessor Details Ms. Eloise Utley, Elo	ise Utley ,	Tel: 01884 2	42050, eloise.utley	y@aessc.co.ul	k Assessor ID	P635-0001		
Client								
SUMARY FOR INPUT DATA FOR New Buil	d (As Desi	gned)						
Criterion 1 – Achieving the TER and TFEE	rate							
1a TER and DER								
Fuel for main heating		Mains ga	ns					
Fuel factor								
Target Carbon Dioxide Emission Rate (TER)	18.66			kgCO ₂ /m ²			
Dwelling Carbon Dioxide Emission Rate	16.47			kgCO ₂ /m ²	Pass			
		-2.19 (-1	1.7%)		kgCO₂/m²			
1b TFEE and DFEE								
Target Fabric Energy Efficiency (TFEE)	49.42		kWh/m²/yr					
Dwelling Fabric Energy Efficiency (DFEE)		41.34			kWh/m²/yr			
		-8.1 (-16	.4%)		kWh/m²/yr	Pass		
Criterion 2 – Limits on design flexibility								
Limiting Fabric Standards								
2 Fabric U-values								
Element	Avera	ge	Hi	ghest				
External wall	0.21 (max. 0.30)	0	24 (max. 0.70	Pass			
Party wall	0.00 ((max. 0.20) -				Pass		
Roof	0.11 (max. 0.20)	0.	11 (max. 0.35	Pass			
Openings	1.48 ((max. 2.00) 1.88 (max. 3.30)						
2a Thermal bridging								
Thermal bridging calculated from li	inear ther	mal transmitt	ances for each jur	nction				
3 Air permeability								
Air permeability at 50 pascals		4.50 (design value) m ³ /(h.m ²) @ 50 Pa						
Maximum		10.0 m³/(h.m²) @ 50 Pa						
Limiting System Efficiencies								
4 Heating efficiency								

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.11r11

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 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	Pass
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	0.1600 0.1600	
Maximum	0.7	Pass
Criterion 3 – Limiting the effects of heat gains in sum	mer	
9 Summertime temperature		
Overheating risk (South East England)	Medium	Pass
Based on:		
Overshading	Average	
Windows facing South East	3.02 m ² , No overhang	
Windows facing South West	2.20 m², No overhang	
Windows facing North West	5.27 m ² , No overhang	
Air change rate	3.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with D	ER and DFEE rate	
Party Walls		
Туре	U-value	
Filled Cavity with Edge Sealing	0.00 W/m ² K	Pass
Air permeability and pressure testing		
3 Air permeability		
Air permeability at 50 pascals	4.50 (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/m ² K	
Roof U-value	0.00 W/m²K 0.11 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	B 84	B 88	



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