

Plot 002, 2 Bed, K, B, DA11 Dwelling type:Flat, SeDate of assessment:20/03/2Produced by:Ross ETotal floor area:71.33 rDRRN:8921-8

Flat, Semi-Detached 20/03/2019 Ross Elliott 71.33 m² 8921-8577-0005

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.

Very environmentally friendly - lower CO₂ emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (1-20) G Not environmentally friendly - higher CO₂ emissions England EU Directive 2002/91/EC

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 been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.

Page 1 of 4





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



Property Reference	4907-0027-3905-002 Issued on Date 20/03						0/03/2019		
Assessment	002	002 Prop Type Ref 2BF Type 2 (Semi)							
Reference									
Property Plot 002, 2 Bed, K, B, DA11									
SAP Rating			83 B	DER	18.97	TER		20.30	
Environmental			86 B	% DER <ter< th=""><th></th><th>6.54</th><th></th><th></th></ter<>		6.54			
CO ₂ Emissions (t/year)			1.10	DFEE	52.31	TFEE		59.78	
General Requirements Compliance			Pass	% DFEE <tfee< th=""><th></th><th>12.50</th><th></th><th></th></tfee<>		12.50			
Assessor Details	ssessor Details Mr. Ross Elliott, Ross Elliott, Tel: 01884 242050, ross.elliott@aessc.co.uk Assessor ID						F	P639-0001	
Client	Countryside , Country	/side							
SUMARY FOR INPUT	DATA FOR New Build	(As Designe	ed)						
Criterion 1 – Achievir	ng the TER and TFEE r	ate							
1a TER and DER									
Fuel for main heating			Mains gas					7	
Fuel factor			1.00 (mains gas)]	
Target Carbon Dioxide Emission Rate (TER)			20.30			kgCO₂/m	1 ²		
Dwelling Carbon Dioxide Emission Rate (DER)			18.97			kgCO₂/m	1 ²	Pass	
			-1.33 (-6.6%)			kgCO₂/m	1 ²		
1b TFEE and DFEE									
Target Fabric Energy Efficiency (TFEE)			59.78			kWh/m²/yr			
Dwelling Fabric Energy Efficiency (DFEE))	52.31			kWh/m²/yr			
			-7.5 (-12	2.5%)		kWh/m²	/yr	Pass	
Criterion 2 – Limits o	n design flexibility								
Limiting Fabric St	andards								
2 Fabric U-values									
Element	Element Average								
External w	all	0.22 (max			0)		Pass		
Party wall		0.00 (max. 0.20)			-			Pass	
Floor	0.15 (ma		. 0.25) 0.15 (max. 0.1			(0) Pass			
Openings 1.19 (ma)			<. 2.00) 1.20 (max. 3.30)			0)		Pass	
<u>Za Thermal bridgi</u>	ing								
I nermal bridg	ing calculated from lir	iear thermal	i transmit	tances for each	Junction				
<u>3 Air permeability</u>						$m^{3}/(h m^{2}) \otimes 50 D_{2}$			
Air permeability at 50 pascals			5.00 (design value)] m²/(h.m²) @ 50 Pa			
			10.0			m²/(n.m²) @ 50 Pa Pass			
Limiting System E	mciencies								
<u>4 Heating efficien</u>	сy								

This report has been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.





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



Main heating system	Boiler system with radiators or underfloor -	Pass			
	Data from database				
	Potterton Promax Ultra Combi 24 ErP Combi boiler				
	Efficiency: 89.1% 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	No cylinder			
Boiler interlock	Yes		Pass		
7 Low energy lights					
Percentage of fixed lights with low-energy	100	%			
fittings	L				
Minimum	75	%	Pass		
8 Mechanical ventilation					
Continuous extract system					
Specific fan power	0.16				
Maximum	0.7		Pass		
Criterion 3 – Limiting the effects of heat gains in su	mmer				
9 Summertime temperature					
Overheating risk (South East England)	Medium		Pass		
Based on:					
Overshading	Average				
Windows facing North East	Windows facing North East 8.48 m², No overhang				
Windows facing South East	2.17 m ² , No overhang				
Windows facing North West	4.65 m ² , No overhang				
Air change rate 3.00 ach					
Blinds/curtains	None				
Criterion 4 – Building performance consistent with	DER and DFEE rate				
Party Walls					
Туре	U-value	_			
Filled Cavity with Edge Sealing	0.00	W/m²K	Pass		
Air permeability and pressure testing					
<u>3 Air permeability</u>					
Air permeability at 50 pascals	5.00 (design value) m ³	/(h.m²) @ 50 Pa			
Maximum	10.0 m ³	/(h.m²) @ 50 Pa	Pass		
<u>10 Key features</u>					
Party wall U-value	0.00	W/m²K			
Door U-value	1.00	W/m²K			
Deerllyalue	1.08 W/m²K				

This report has been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.





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 86	

This report has been produced by an accredited Elmhurst member whose work is subject to quality assurance audits. The data used to produce the report has been verified by the Elmhurst members' portal.



