PREDICTED ENERGY ASSESSMENT



Plot 006, 2 Bed, Dwelling type: Flat, Semi-Detached

K, B, Date of assessment: 20/03/2019
DA11 Produced by: Ross Elliott
Total floor area: 71.33 m²

DRRN: 2890-9207-2210

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.

Very energy efficient - lower running costs (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not energy efficient - higher running costs Eu Directive 2002/91/EC

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 Very environmentally friendly - lower CO₂ emissions (92 plus) A (81-91) B (69-80) C (55-68) D (39-54) E (21-38) F (1-20) G Not environmentally friendly - higher CO₂ emissions EU Directive 2002/91/EC

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.





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



kWh/m²/yr

kWh/m²/yr

kWh/m²/yr

Pass

Property Reference	4907-0027-3905-006			Issued on Date	20/03/2019		
Assessment	006			Prop Type Ref	p Type Ref 2BF Type 2 (Semi)		
Reference							
Property	Plot 006, 2 Bed, K, B, DA1	1					
SAP Rating		83 B	DER	18.20	TER	19.76	
Environmental		86 B	% DER <ter< td=""><td></td><td colspan="2">7.89</td></ter<>		7.89		
CO ₂ Emissions (t/year)		1.08	DFEE	49.65	TFEE	56.99	
General Requirement	General Requirements Compliance		% DFEE <tf< td=""><td>E</td><td colspan="3">12.88</td></tf<>	E	12.88		
Assessor Details	Mr. Ross Elliott, Ross Elliott, Tel: 01884 242050, ross.elliott@aessc.co.uk Assessor ID P639-00				P639-0001		
Client	ountryside , Countryside						
SUMARY FOR INPUT DATA FOR New Build (As Designed)							
Criterion 1 – Achieving	the TER and TFEE rate						
1a TER and DER							
Fuel for main heating		Mains gas					
Fuel factor	1.00 (mains gas)		ains gas)				
Target Carbon Dioxide Emission Rate (TER)		19.76	19.76		kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)		18.20	18.20		kgCO ₂ /m ²	Pass	
		-1.56 (-7	.9%)		kgCO ₂ /m ²		

56.99

49.65

-7.4 (-13.0%)

Criterion 2 – Limits on design flexibility

Target Fabric Energy Efficiency (TFEE)

Dwelling Fabric Energy Efficiency (DFEE)

Limiting Fabric Standards

2 Fabric U-values

1b TFEE and DFEE

Element	Average	Highest	
External wall	0.22 (max. 0.30)	0.24 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Roof	0.12 (max. 0.20)	0.20 (max. 0.35)	Pass
Openings	1.18 (max. 2.00)	1.20 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals	5.00 (design value)	m³/(h.m²) @ 50 Pa	
Maximum	10.0	m³/(h.m²) @ 50 Pa	Pass

Limiting System Efficiencies

4 Heating efficiency





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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		
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			_
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)	Slight		Pass
Based on:			
Overshading	Average]	
Windows facing North East	8.48 m², No overhang]
Windows facing South East	Windows facing South East 2.17 m², No overhang		
Windows facing North West	4.65 m ² , No overhang		
Air change rate	6.00 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			
3 Air permeability			
Air permeability at 50 pascals	5.00 (design value) m	n³/(h.m²) @ 50 Pa	
Maximum			Pass

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.





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10 Key features

 Party wall U-value
 0.00
 W/m²K

 Roof U-value
 0.11
 W/m²K

 Door U-value
 1.00
 W/m²K

 Door U-value
 1.08
 W/m²K





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	В 86	



