PREDICTED ENERGY ASSESSMENT



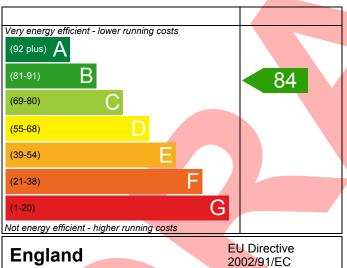
18, Matford Home Park, Dwelling type: Flat, Semi-Detached

Exeter, Date of assessment: 03/10/2020 Devon, Produced by: Stuart Milne EX1 Total floor area: 69.94 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.

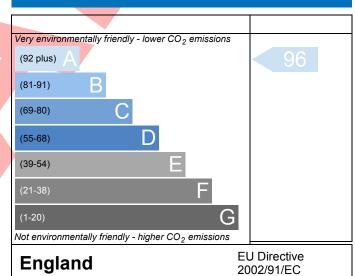
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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	Matford 018					Issued on Date	03/10/2020		
Assessment	1								
Reference	_	PTOP Type Ket Block B WITT							
Property	18, Matford Home	e Park, Exc	eter, Devon	, EX1					
SAP Rating			84 B	DER	5.21	TER	14.48		
Environmental			96 A	% DER <ter< td=""><td></td><td>64.02</td><td></td></ter<>		64.02			
CO ₂ Emissions (t/year)			0.32	DFEE	26.10	TFEE	28.59		
General Requirements Compliance			Pass	% DFEE <tfei< td=""><td></td><td>8.71</td><td></td></tfei<>		8.71			
Assessor Details	Mr. Stuart Milne, Stua sap@mendipenergy.c		Tel: 01934	742386,		Assessor ID	L721-0001		
Client	Cavanna Homes								
SUMARY FOR INPUT	DATA FOR New Build	(As Desig	ned)						
Criterion 1 – Achievii	ng the TER and TFEE ra	ate							
1a TER and DER									
Fuel for main heating			Biomass	s (c)					
Fuel factor			1.00 (biomass)						
Target Carbon Dioxide Emission Rate (TER)			14.48			kgCO ₂ /m ²			
Dwelling Carbon I	Dioxide Emission Rate	(DER)	5.21			kgCO ₂ /m ²	Pass		
			-9.27 (-6	54.0%)		kgCO ₂ /m ²			
1b TFEE and DFEE									
Target Fabric Energy Efficiency (TFEE)			28.59 kWh/m²/yr						
Dwelling Fabric Energy Efficiency (DFEE)			26.10						
			-2.5 (-8.	7%)		kWh/m²/yr	Pass		
Criterion 2 – Limits o									
Limiting Fabric St									
2 Fabric U-values									
Element		Averag			Highest				
External w	rall	•	ax. 0.30) 0.25 (max. 0			(0)	Pass		
Party wall			- ax. 0.20)				Pass		
	Openings 1.20 (r		ax. 2.00) 1.20 (max. 3.30)			30)	Pass		
2a Thermal bridg	-								
	ing calculated from lin	ear thern	nal transmit	tances for each	junction				
3 Air permeability	Υ					_			
Air permeability at 50 pascals			7.00 (design value)			m³/(h.m²) @ 50 Pa			
Maximum			10.0			m³/(h.m²) @ 50 Pa	Pass		
Limiting System E	Efficiencies								
4 Heating efficien	псу								
Main heating system			Commu	-					
Secondary heating system			None						
5 Cylinder insulat	tion								
Hot water storage			No cylin						

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r10

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<u>6 Controls</u>		
Space heating controls	Flat rate charging, programmer and TRVs	Pass
Hot water controls	No cylinder	
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in su	mmer	
9 Summertime temperature		
Overheating risk (South West England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing South	3.08 m², No overhang	
Windows facing South West	5.62 m², No overhang	_
Air change rate	0.00 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	7.00 (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	
Community heating, Biomass	N/A	

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RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmenta I 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	Δ 96	



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