PREDICTED ENERGY ASSESSMENT



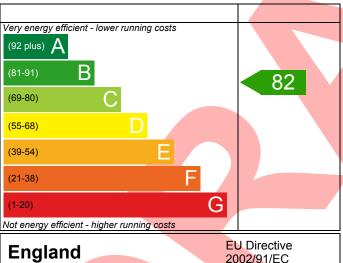
16, Matford Home Park, Dwelling type: Flat, Semi-Detached

Exeter, Date of assessment: 03/10/2020 Devon, Produced by: Stuart Milne EX1 Total floor area: 70.53 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.

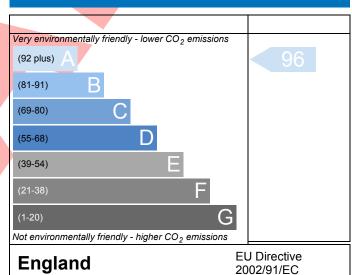
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 016					Issued on Date	03/10/2020				
Assessment	1	Prop Type Ref Block B GFF									
Reference											
Property	16, Matford Home	e Park, Ex	keter, Devon	, EX1							
SAP Rating			82 B	DER	5.96	TER	18.02				
Environmental			96 A	% DER <ter< td=""><td></td><td>66.93</td><td></td></ter<>		66.93					
CO ₂ Emissions (t/year)			0.36	DFEE	40.33	TFEE	47.24				
General Requirements Compliance			Pass	% DFEE <tfee< td=""><td></td><td>14.62</td><td></td></tfee<>		14.62					
	Mr. Stuart Milne, Stuarsap@mendipenergy.c		, Tel: 01934	742386,		Assessor ID	L721-0001				
Client	Cavanna Homes										
SUMARY FOR INPUT	DATA FOR New Build	(As Desi	gned)								
Criterion 1 – Achievii	ng the TER and TFEE r	ate									
1a TER and DER											
Fuel for main hea	ting		Biomass	s (c)							
Fuel factor	_		1.00 (bi								
Target Carbon Dioxide Emission Rate (TER)			18.02			kgCO ₂ /m ²					
Dwelling Carbon [Dioxide Emission Rate	(DER)	5.96			kgCO ₂ /m ²	Pass				
			-12.06 (-66.9%)		kgCO ₂ /m ²					
1b TFEE and DFEE											
Target Fabric Energy Efficiency (TFEE)			47.24 kWh/m²/yr								
Dwelling Fabric Energy Efficiency (DFEE)			40.33 kWh/m²/yr								
			-6.9 (-14	1.6%)		kWh/m²/yr	Pass				
Criterion 2 – Limits o	n design flexibility			_							
Limiting Fabric St	andards										
2 Fabric U-values											
Element		Avera	ge		Highest						
External w	all	0.25 (1	max. 0.30)		0.25 (max. 0.7	0)	Pass				
Party wall		0.00 (max. 0.20)		-		Pass				
Floor		0.11 (max. 0.25)		0.11 (max. 0.7	0)	Pass				
Openings	Openings 1.20 (r			ax. 2.00) 1.20 (max. 3.30)			Pass				
2a Thermal bridg	ing										
Thermal bridg	ing calculated from lin	ear ther	mal transmit	tances for each	junction						
3 Air permeability	4										
Air permeabili	ty at 50 pascals		7.00 (de	sign value)		m³/(h.m²) @ 50 Pa					
Maximum			10.0	10.0 n			Pass				
Limiting System E	fficiencies										
4 Heating efficien	су										
Main heating system			Community heating scheme								
Secondary heating system			None								
5 Cylinder insulat											

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

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Hot water storage	No cylinder		
<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 East	1.93 m², No overhang		
Windows facing West	6.16 m ² , 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		
Floor U-value	0.11 W/m²K		
Thermal bridging y-value	0.035 W/m ² K		
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 82	A 96	



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