PREDICTED ENERGY ASSESSMENT

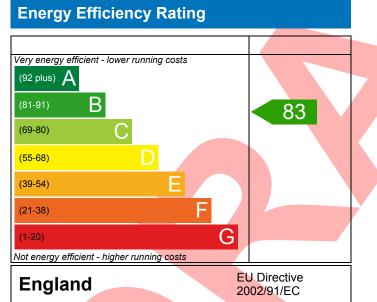


19, Matford Home Park, Exeter, Devon, EX1 Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Semi-Detached 03/10/2020 Stuart Milne 70.53 m²

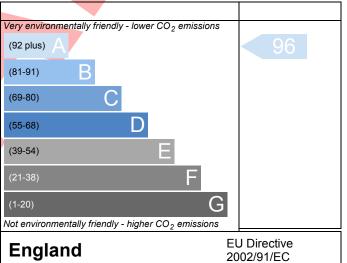
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 (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.

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 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 019 Issued on Date 03/10/2020						
	1 Prop Type Ref Block B MFF						
Reference							
Property	19, Matford Home	Park, Exe	eter, Devon	, EX1			
SAP Rating			83 B	DER	5.50	TER	15.50
Environmental			96 A	% DER <ter< td=""><td></td><td>64.52</td><td></td></ter<>		64.52	
CO ₂ Emissions (t/year)			0.33	DFEE	32.29	TFEE	34.18
General Requirements (Compliance		Pass	% DFEE <tfee< td=""><td></td><td>5.54</td><td></td></tfee<>		5.54	
	Stuart Milne, Stuart Milne, Tel: 01934 742386, Assessor ID L721-0001						
Client Cav	vanna Homes						
SUMARY FOR INPUT DAT	TA FOR New Build (As Desig	ned)				
Criterion 1 – Achieving tl	-	_	,				
1a TER and DER							
Fuel for main heating			Biomass	(c)			
Fuel factor			1.00 (bio	. ,			
Target Carbon Dioxide Emission Rate (TER)		R)	15.50			kgCO ₂ /m ²]
Dwelling Carbon Dioxide Emission Rate (DER)			5.50			kgCO ₂ /m ²	Pass
	(-10.00 (-	64.5%)		kgCO ₂ /m ²	
1b TFEE and DFEE				,			
Target Fabric Energy I	Efficiency (TFEE)		34.18			kWh/m²/yr	
Dwelling Fabric Energ	gy Efficiency (DFEE)		32.29	7		kWh/m²/yr	
			-1.9 (-5.0	5%)		kWh/m²/yr	Pass
Criterion 2 – Limits on de	esign flexibility	,					
Limiting Fabric Stand	ards						
2 Fabric U-values							
Element		Averag	e		Highest		
External wall		_	ax. 0.30)		0.25 (max. 0.70	D)	Pass
Party wall		0.00 (m	ax. 0.20)		-		Pass
Openings		1.20 (m	ax. 2.00)		1.20 (max. 3.30	D)	Pass
2a Thermal bridging							
Thermal bridging	calculated from line	ar therm	al transmit	tances for each j	junction		
<u>3 Air permeability</u>							
Air permeability a	t 50 pascals		7.00 (de	sign value)		m³/(h.m²) @ 50 Pa	
Maximum			10.0	- 1		m ³ /(h.m ²) @ 50 Pa	Pass
Limiting System Effici	iencies						
4 Heating efficiency							
Main heating system		Community heating scheme					
Main heating system	Secondary heating system						
	g system		None				
			None				

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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 sur	nmer	
9 Summertime temperature		
Overheating risk (South West England) Based on:	Slight	Pass
Overshading	Average	7
Windows facing East Windows facing West	1.93 m ² , No overhang 6.16 m ² , No overhang	
Air change rate	0.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with I	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	7.00 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
<u>10 Key features</u>		
Party wall U-value	0.00 W/m²K	
Community heating, Biomass	N/A	

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RECOMMENDATIONS





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