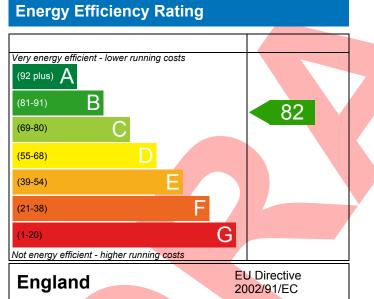


15, Matford Home Park, Exeter, Devon, EX1 Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Semi-Detached 03/10/2020 Stuart Milne 69.94 m²

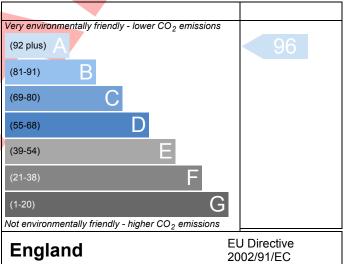
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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

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



Duonoutus Dofessonoo								
Property Reference	Matford 015							
Assessment	1	1 Prop Type Ref Block B GFF						
Reference								
Property	15, Matford Hor	ne Park, Exe	eter, Devon	, EX1				
SAP Rating			82 B	DER	5.61	TER	16.53	
Environmental			96 A	% DER <ter< td=""><td></td><td>66.06</td><td></td></ter<>		66.06		
CO ₂ Emissions (t/ye	ear)		0.34	DFEE	33.24	TFEE	39.28	
General Requireme	ents Compliance		Pass	% DFEE <tfee< td=""><td></td><td>15.38</td><td></td></tfee<>		15.38		
Assessor Details		Stuart Milne, Stuart Milne, Tel: 01934 742386, Assessor ID L721-0001					L721-0001	
Client	Cavanna Homes	ranna Homes						
SUMARY FOR INPUT	DATA FOR New Bui	ld (As Desig	ned)					
	ing the TER and TFEE							
1a TER and DER	0							
Fuel for main hea	ating		Biomass	s (c)				
Fuel factor			1.00 (bi				=	
Target Carbon Di	oxide Emission Rate	(TER)	16.53			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)			5.61			kgCO ₂ /m ²	Pass	
-			-10.92 (-66.1%)		kgCO ₂ /m ²		
<u>1b TFEE and DFEE</u>								
Target Fabric Ene	ergy Efficiency (TFEE)		39.28			kWh/m²/yr		
Dwelling Fabric E	nergy Efficiency (DFE	E)	33.24			kWh/m²/yr		
			-6.1 (-15	5.5%)		kWh/m²/yr	Pass	
Criterion 2 – Limits of	on design flexibility			_				
Limiting Fabric S	tandards							
Limiting Fabric S								
		Average	e		Highest			
2 Fabric U-values	5	_	e iax. 0.30)		Highest 0.25 (max. 0.7	0)	Pass	
2 Fabric U-values Element External w Party wall	<u>s</u> vall	0.25 (m 0.00 (m	iax. 0.30) iax. 0.20)		0.25 (max. 0.7		Pass Pass	
2 Fabric U-values Element External w Party wall Floor	<u>s</u> vall	0.25 (m 0.00 (m 0.11 (m	ax. 0.30) ax. 0.20) ax. 0.25)		0.25 (max. 0.7 - 0.11 (max. 0.7	0)		
2 Fabric U-values Element External w Party wall	<u>s</u> vall	0.25 (m 0.00 (m 0.11 (m	iax. 0.30) iax. 0.20)		0.25 (max. 0.7	0)	Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg	s vall ging	0.25 (m 0.00 (m 0.11 (m 1.20 (m	aax. 0.30) aax. 0.20) aax. 0.25) aax. 2.00)		0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0)	Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg	vall	0.25 (m 0.00 (m 0.11 (m 1.20 (m	aax. 0.30) aax. 0.20) aax. 0.25) aax. 2.00)		0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0)	Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg	s vall ging ging calculated from 1	0.25 (m 0.00 (m 0.11 (m 1.20 (m	aax. 0.30) aax. 0.20) aax. 0.25) aax. 2.00)		0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0)	Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit	s vall ging ging calculated from 1	0.25 (m 0.00 (m 0.11 (m 1.20 (m	iax. 0.30) iax. 0.20) iax. 0.25) iax. 2.00) nal transmit		0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0)	Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit	s vall ging calculated from	0.25 (m 0.00 (m 0.11 (m 1.20 (m	iax. 0.30) iax. 0.20) iax. 0.25) iax. 2.00) nal transmit	tances for each j	0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0) 0)	Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit Air permeabilit	s vall ging calculated from ty lity at 50 pascals	0.25 (m 0.00 (m 0.11 (m 1.20 (m	ax. 0.30) ax. 0.20) ax. 0.25) ax. 2.00) nal transmit	tances for each j	0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0) 0) m³/(h.m²) @ 50 Pa	Pass Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit Air permeabilit Maximum	s vall ging ging calculated from ty lity at 50 pascals Efficiencies	0.25 (m 0.00 (m 0.11 (m 1.20 (m	ax. 0.30) ax. 0.20) ax. 0.25) ax. 2.00) nal transmit	tances for each j	0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3	0) 0) m³/(h.m²) @ 50 Pa	Pass Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit Air permeabil Maximum	s vall ging ging calculated from 1 ty lity at 50 pascals Efficiencies ncy	0.25 (m 0.00 (m 0.11 (m 1.20 (m	ax. 0.30) ax. 0.20) ax. 0.25) ax. 2.00) aal transmit 7.00 (de 10.0	tances for each j	0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3 junction	0) 0) m³/(h.m²) @ 50 Pa	Pass Pass Pass	
2 Fabric U-values Element External w Party wall Floor Openings 2a Thermal bridg Thermal bridg 3 Air permeabilit Maximum Limiting System 4 Heating efficier	s vall ging ging calculated from ty lity at 50 pascals Efficiencies ncy system	0.25 (m 0.00 (m 0.11 (m 1.20 (m	ax. 0.30) ax. 0.20) ax. 0.25) ax. 2.00) aal transmit 7.00 (de 10.0	tances for each j	0.25 (max. 0.7 - 0.11 (max. 0.7 1.20 (max. 3.3 junction	0) 0) m³/(h.m²) @ 50 Pa	Pass Pass Pass	

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



Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating controls	Flat rate charging, programmer and TRVs	Pass
Hot water controls	No cylinder	
<u>7 Low energy lights</u>		-
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 sum	mer	
<u>9 Summertime temperature</u>		
Overheating risk (South West England)	Slight	Pass
Based on:		
Overshading	Average]
Windows facing South	3.08 m ² , No overhang]
Windows facing South West	5.62 m ² , No overhang	
Air change rate	0.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with D	ER 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	
Floor U-value	0.11 W/m²K	
Thermal bridging y-value	0.034 W/m²K	
Community heating, Biomass	N/A	

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RECOMMENDATIONS





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