PREDICTED ENERGY ASSESSMENT



Plot 234, 3 Bed, 1B, 0ES, Honiton, Devon Dwelling type: House, Detached

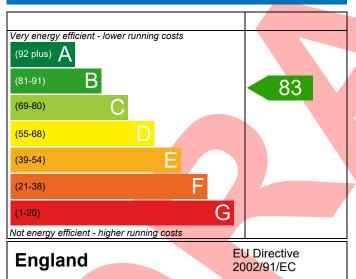
Date of assessment: 30/01/2020
Produced by: Kieran Davies

Total floor area: 85.2 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.

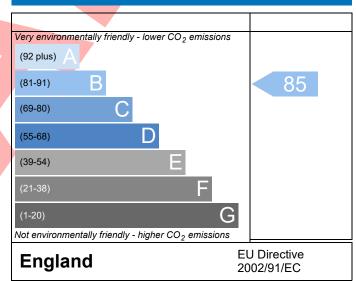
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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 4907-0023-3730-23-	4			Issued on Date	30/01/2020	
Assessment Plot 234		Pro	op Type Ref	Y-v1 Det As	· ·	
Reference		_				
Property Plot 234, 3 Bed, 1B,	0ES, Honiton, Devon	1				
SAP Rating	83 B	DER	18.36	TER	19.44	
Environmental	85 B	% DER <ter< td=""><td></td><td>5.56</td><td></td></ter<>		5.56		
CO ₂ Emissions (t/year)	1.30	DFEE	52.05	TFEE	59.46	
General Requirements Compliance	Pass	% DFEE <tfee< td=""><td></td><td>12.46</td><td></td></tfee<>		12.46		
Assessor Details Miss Lindsey Dean, Lind	· ·	1 242050,		Assessor ID	T716-0001	
Lindsey.dean@aessc.co	.uk					
Client Baker Estates						
SUMARY FOR INPUT DATA FOR New Build (A	As Designed)					
Criterion 1 – Achieving the TER and TFEE rate	9					
1a TER and DER						
Fuel for main heating	Mains gas	5				
Fuel factor	1.00 (mai	ns gas)				
Target Carbon Dioxide Emission Rate (TER	19.44			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (D	ER) 18.36			kgCO ₂ /m ²	Pass	
	-1.08 (-5.6	5%)		kgCO₂/m²		
1b TFEE and DFEE	50.45			100/1/2/		
Target Fabric Energy Efficiency (TFEE)		59.46 kWh/m²/yr				
Dwelling Fabric Energy Efficiency (DFEE)	52.05	40/)		kWh/m²/yr	Desc	
Criterion 2 – Limits on design flexibility	-7.4 (-12.4	4%)		kWh/m²/yr	Pass	
Limiting Fabric Standards						
2 Fabric U-values	A		ala a ak			
	Average		ghest	1)	Dass	
	0.21 (max. 0.30) 0.00 (max. 0.20)	0.	21 (max. 0.70))	Pass Pass	
	0.14 (max. 0.25)	0	14 (may 0.70	1)	Pass	
	0.11 (max. 0.20)				Pass	
Openings	,					
Openings	1.39 (max. 2.00)			,	Pass	
	1.39 (max. 2.00)		(**************************************			
2a Thermal bridging						
2a Thermal bridging Thermal bridging calculated from linear						
2a Thermal bridging Thermal bridging calculated from linea 3 Air permeability	or thermal transmitta	ances for each jur		m³/(h.m²) @ 50 P;	a	
2a Thermal bridging Thermal bridging calculated from linear		ances for each jur		m³/(h.m²) @ 50 Pc m³/(h.m²) @ 50 Pc	-	

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4 Heating efficiency

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



Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass		
	Data from database			
	Ideal LOGIC COMBI ESP1 35			
	Combi boiler			
	Efficiency: 89.6% 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				
Not applicable				
Criterion 3 – Limiting the effects of heat gains in sui	mmer			
Summertime temperature				
Overheating risk (South West England)	Not significant	Pass		
Based on:				
Overshading	Average			
Windows facing East	6.40 m², No overhang	\equiv		
Windows facing West	8.25 m², No overhang			
Air change rate	4.00 ach			
Blinds/curtains	None			
Criterion 4 – Building performance consistent with	DER and DFEE rate			
Party Walls				
Туре	U-value			
	W/m²K	Pass		
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals	5.00 (design value) m ³ /(h.m ²) @ 50 Pa			
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass		
.0 Key features	Λ / σ ** *			
Party wall U-value	0.00 W/m²K			
Roof U-value	0.11 W/m²K			
Door U-value				
Door O-value	0.83 W/m²K			

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RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£31	B 84	B 87	Recommended
Photovoltaic	£5,000 - £8,000	£331	A 95	A 96	Recommended
Wind turbine			0	0	Not applicable
Totals	£9,000 - £14,000	£362	A 95	A 96	



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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.12r02