PREDICTED ENERGY ASSESSMENT



Eastergate, Dwelling type: House, Semi-Detached

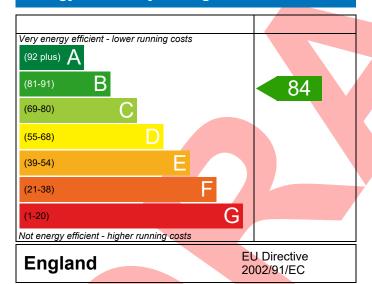
Hampshire Homes Date of assessment: 24/06/2021
Produced by: William Vincent

Total floor area: 82.08 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.

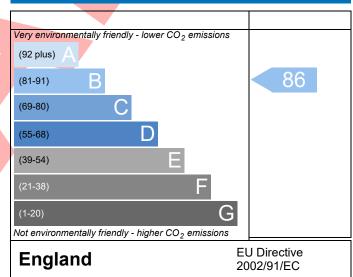
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

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)



Assessment Reference Property Eastergate, Hampshire Homes SAP Rating 84 B DER 17.75 TER 18.52 Environmental 86 B S DERETER 48.59 TEE 53.49 General Requirements Compliance Pass S DEECTIFE 9.16 Assessor Details Mr. William Vincent, William Vincent, Tel: 01582544250, William. Vincent@ee-ltd.co.uk Client SUMARY FOR INPUT DATA FOR New Build (As Designed) Criterion 1 – Achieving the TER and TFEE rate 1a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (DER) Dwelling Carbon Dioxide Emission Rate (DER) Dwelling Carbon Dioxide Emission Rate (DER) Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) Lasses Mains gas Fuel factor Loo (mains gas) Loo (main	Diet 012 2DD	Comi Dot			Januard on Data	24/06/2024
Reference Property Eastergate, Hampshire Homes SAP Rating BAB DER 17.75 TER 18.52 Environmental 86 B SERVITCH ALTO CO. Emissions (t/year) 1.22 DFEE 48.59 TEEE 53.49 General Requirements Compliance Pass SESSON DETECTIFE MIT. William Vincent, William Vincent, Tel: 01582544250, SUIJIAM VINCENT TER and DER WILLIAM VINCENT TER AND TER	· '	jemi-Det	Dwd	on Tuno Bof	Issued on Date	24/06/2021
SAP Rating			Pro	рр Туре кет		
Tree		ampshire Homes				
Description 1.22 Description 1.22 Description 1.22 Description 1.23 Description 1.24 Description 1.25 Descrip	SAP Rating	84 B	DER	17.75	TER	18.52
Assessor Details	Environmental	86 B	% DER <ter< td=""><td></td><td>4.17</td><td></td></ter<>		4.17	
Assessor Details Mr. William Vincent, William Vincent, Tel: 01582544250, William.Vincent@ee-ltd.co.uk Client SUMARY FOR INPUT DATA FOR New Build (As Designed) Criterion 1 — Achieving the TER and TFEE rate 1a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER) Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) Target Fabric Energy Efficiency (DFEE) Dwelling Fabric Standards 2 Fabric U-values Element Average Highest External wall 0.22 (max. 0.36) 0.14 (max. 0.25) 0.14 (max. 0.70) Pass Roof 0.11 (max. 0.20) 0.20 (max. 0.35) Pass Openings 1.48 (max. 2.00) 1.50 (max. 3.30) Pass 2 Thermal bridging Thermal bridging Thermal bridging calculated from linear thermal transmittances for each junction 3 Air permeability at 50 pascals Maximum 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.0	CO₂ Emissions (t/year)	1.22	DFEE	48.59	TFEE	53.49
William.Vincent@ee-Itd.co.uk SUMARY FOR INPUT DATA FOR New Build (As Designed) Criterion 1 – Achieving the TER and TFEE rate 1a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER) 17.75 Dwelling Carbon Dioxide Emission Rate (DER) 17.75 Dwelling Carbon Dioxide Emission Rate (DER) 17.75 ByeCO ₂ /m² Pass Wyh/m²/yr Dwelling Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) 48.59 Wyh/m²/yr A.9 (-9.2%) Criterion 2 – Limits on design flexibility Limiting Fabric Standards 2 Fabric U-values Element Average Highest External wall 0.22 (max. 0.30) 0.22 (max. 0.70) Pass Party wall 0.00 (max. 0.20) - Pass Floor 0.14 (max. 0.25) 0.14 (max. 0.70) Pass Openings 1.48 (max. 2.00) 1.50 (max. 3.30) Pass 2 Thermal bridging Thermal bridging calculated from linear thermal transmittances for each junction 3 Afr permeability Air permeability Air permeability Air permeability at 50 pascals Maximum 10.0 m³/(h.m²) @ 50 Pa Pass Limiting System Efficiencies	General Requirements Compliance	Pass	% DFEE <tfee< td=""><td></td><td>9.16</td><td></td></tfee<>		9.16	
SUMARY FOR INPUT DATA FOR New Build (As Designed) Criterion 1 – Achieving the TER and TFEE rate 1a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER)			01582544250,		Assessor ID	T759-0001
Criterion 1 - Achieving the TER and TFEE rate 1a TER and DER Fuel for main heating Fuel factor Target Carbon Dioxide Emission Rate (TER) Dwelling Carbon Dioxide Emission Rate (DER) 1a.52 Dwelling Carbon Dioxide Emission Rate (DER) 17.75 kgCO ₂ /m² Pass						
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1b TFEE and DFEE Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE) 48.59 44.9 (-9.2%) Criterion 2 – Limits on design flexibility Limiting Fabric Standards 2 Fabric U-values Element External wall 0.22 (max. 0.30) 0.22 (max. 0.70) Pass Party wall 0.00 (max. 0.20) - Pass Floor 0.14 (max. 0.25) 0.14 (max. 0.70) Pass Roof 0.11 (max. 0.20) 0.20 (max. 0.35) Pass Openings 1.48 (max. 2.00) 1.50 (max. 3.30) Pass 2a Thermal bridging Thermal bridging Thermal bridging calculated from linear thermal transmittances for each junction 3 Air permeability Air permeability at 50 pascals Maximum 10.0 m²/(h.m²) @ 50 Pa Pass Limiting System Efficiencies	Dwelling Carbon Dioxide Emission R	ate (DER) 17.75			kgCO ₂ /m ²	Pass
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Air permeability Air permeability at 50 pascals Maximum 5.00 (design value) 10.0 m³/(h.m²) @ 50 Pa Pass Limiting System Efficiencies	2a Thermal bridging					
Air permeability Air permeability at 50 pascals Maximum 5.00 (design value) 10.0 m³/(h.m²) @ 50 Pa Pass Limiting System Efficiencies		n linear thermal transmit	tances for each jur	nction		
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Maximum 10.0 m³/(h.m²) @ 50 Pa Pass Limiting System Efficiencies		5.00 (de	esign value)		m³/(h,m²) @ 50 P	а
Limiting System Efficiencies			0			
		10.0			/ (/ @ 301)	

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)



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%] 1		
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 sur	nmer			
9 Summertime temperature				
Overheating risk (Thames Valley)	Slight	Pass		
Based on:				
Overshading	Average]		
Windows facing North East	4.57 m², No overhang	ĺ		
Windows facing South West	8.12 m², No overhang			
Windows facing North West	2.50 m², No overhang			
Air change rate	4.00 ach			
Blinds/curtains	Dark-coloured curtain or roller blind, closed 100% of daylight			
	hours			
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				
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		
10 Key features	,, @ 3010	. 300		
Party wall U-value	0.00 W/m²K			
Roof U-value	0.11 W/m²K			
Nooi o-value	O.II N			

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.



Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16

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	£30	B 85	B 88	Recommended
Photovoltaic	£3,500 - £5,500	£341	A 95	A 97	Recommended
Wind turbine			0	0	Not applicable
Totals	£7,500 - £11,500	£371	A 95	A 97	



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