PREDICTED ENERGY ASSESSMENT



Plot 147, 2 Bed, K+B Dwelling type: Date of assessment: Produced by: Total floor area:

Flat, Detached 22/09/2020 Kieran Davies 69.65 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)



roperty Reference	4907-0012-4592-147				Issued on Date	22/09/2020
ssessment	Plot 147		Р	rop Type Ref		22,00,2020
eference	Plot 147 Prop Type Ref Flat Type 16 GF					
roperty	Plot 147, 2 Bed, K+B					
AP Rating		83 B	DER	18.56	TER	20.11
nvironmental		86 B	% DER <ter< td=""><td></td><td>7.72</td><td></td></ter<>		7.72	
O2 Emissions (t/year)		1.10	DFEE	50.91	TFEE	58.46
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>12.92</td><td></td></tfee<>		12.92	
	r. Kieran Davies, Kieran Davies, Kieran Davies@aessc.co.uk	avies , Tel: 0188	34 242050,		Assessor ID	T716-0001
lient	uth, Countryside NH & C					
MARY FOR INPUT DA	ATA FOR New Build (As D	esigned)				
terion 1 – Achieving	the TER and TFEE rate					
TER and DER						
Fuel for main heatin	g	Mains g	as			
Fuel factor		1.00 (ma	ains gas)			
Target Carbon Dioxide Emission Rate (TER)		20.11			kgCO ₂ /m ²	
Dwelling Carbon Dio	xide Emission Rate (DER)	18.56			kgCO₂/m²	Pass
		-1.55 (-7	′.7%)		kgCO₂/m²	
TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		58.46	58.46			
Dwelling Fabric Ener	gy Efficiency (DFEE)	50.91			kWh/m²/yr	
		-7.6 (-13	.0%)		kWh/m²/yr	Pass
iterion 2 – Limits on c	lesign flexibility					
Limiting Fabric Stan	dards					
2 Fabric U-values						
Element	Ave	rage	ŀ	lighest		
External wall		3 (max. 0.30)).18 (max. 0.70))	Pass
Party wall) (max. 0.20)		_		Pass
Floor		7 (max. 0.25)	C).17 (max. 0.7())	Pass
	Openings 1.18 (ma		1.20 (max. 3.30)			Pass
2a Thermal bridging		. ,		,	,	
	calculated from linear th	ermal transmit	tances for each iu	inction		
<u>3 Air permeability</u>						
	at EQ pascals	E 00 (da	sign value)		m³/(h.m²) @ 50 Pa	
Air permeability at 50 pascals Maximum		10.0	sigit value)			
		10.0			m³/(h.m²) @ 50 Pa	Pass
	ciencies					
Limiting System Effic						
<u>4 Heating efficiency</u>						

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Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database	Pass
	Potterton ASSURE 36 COMBI	
	Combi boiler	
	Efficiency: 89.0% 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
<u>7 Low energy lights</u>		
Percentage of fixed lights with low-energy	100 %	
fittings		
Minimum	75 %	Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1900 0.1800	
Maximum	0.7	Pass
terion 3 – Limiting the effects of heat gains in su	ummer	
ummertime temperature		
Overheating risk (South East England)	Medium	Pass
sed on:		
seu on.		
Overshading	Average	
Overshading Windows facing North	2.83 m ² , No overhang	
Overshading Windows facing North Windows facing East	2.83 m², No overhang 2.07 m², No overhang	
Overshading Windows facing North	2.83 m², No overhang 2.07 m², No overhang 10.74 m², No overhang	
Overshading Windows facing North Windows facing East	2.83 m², No overhang 2.07 m², No overhang	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None	
Overshading Windows facing North Windows facing East Windows facing West Air change rate	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls	 2.83 m², No overhang 2.07 m², No overhang 10.74 m², No overhang 3.00 ach None n DER and DFEE rate 	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None DER and DFEE rate	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type	 2.83 m², No overhang 2.07 m², No overhang 10.74 m², No overhang 3.00 ach None n DER and DFEE rate 	Pass
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None DER and DFEE rate	Pas
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None DER and DFEE rate U-value W/m ² K	Pas
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None DER and DFEE rate	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing 3 Air permeability	2.83 m ² , No overhang 2.07 m ² , No overhang 10.74 m ² , No overhang 3.00 ach None DER and DFEE rate U-value W/m ² K	
Overshading Windows facing North Windows facing East Windows facing West Air change rate Blinds/curtains terion 4 – Building performance consistent with Party Walls Type Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	2.83 m², No overhang 2.07 m², No overhang 10.74 m², No overhang 3.00 ach None DER and DFEE rate U-value W/m²K	

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Party wall U-value	0.00	W/m²K
Door U-value	1.00	W/m²K
Door U-value	1.10	W/m²K
Door U-value	0.78	W/m²K

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RECOMMENDATIONS





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