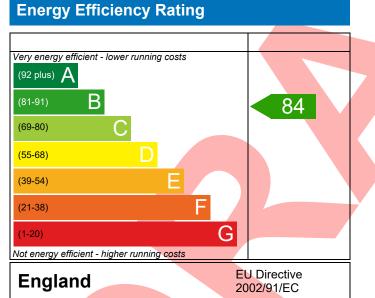


Plot 070, 2 Bed, K, WC, B

Dwelling type: Date of assessment: Produced by: Total floor area: House, End-Terrace 18/05/2022 Silvio Junges 79.94 m²

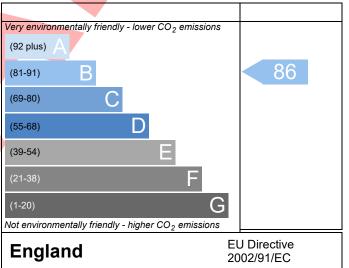
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Property Reference	4907-P637-6435-07	0				Issued on Date	18/05/2022		
Assessment	Plot 070 Prop Type Ref Baker-CB-AS-END								
Reference									
Property	Plot 070, 2 Bed, K, V	VC, B							
SAP Rating			84 B	DER	17.56	TER	19.13		
Environmental			86 B	% DER <ter< th=""><td></td><td>8.21</td><td></td></ter<>		8.21			
CO₂ Emissions (t/year)			1.15	DFEE	45.96	TFEE	53.32		
General Requirements Compliance			Pass	Pass % DFEE <tfee 13.79<="" td=""><td></td></tfee>					
	∕Ir. Silvio Junges, Silvio ilvio.junges@aessouth								
Client									
UMARY FOR INPUT	DATA FOR New Build (#	As Design	ed)						
Criterion 1 – Achievin	g the TER and TFEE rate	e							
a TER and DER									
Fuel for main heat	ng		Mains ga	as					
Fuel factor	-		1.00 (ma						
Target Carbon Dioxide Emission Rate (TER)			19.13			kgCO₂/m²			
Dwelling Carbon Dioxide Emission Rate (DER)			17.56			kgCO ₂ /m ²	Pass		
			-1.57 (-8	.2%)		kgCO ₂ /m ²			
<u>b TFEE and DFEE</u>									
Target Fabric Energy Efficiency (TFEE)			53.32 kWh/m²/yr						
Dwelling Fabric En	ergy Efficiency (DFEE)		45.96			kWh/m²/yr			
			-7.3 (-13	.7%)		kWh/m²/yr	Pass		
Criterion 2 – Limits on									
Limiting Fabric Sta	ndards								
2 Fabric U-values									
Element		Average			Highest				
External wa	II	0.24 (ma	· · · · ·		0.26 (max. 0.7	70)	Pass		
Party wall		0.00 (ma			-				
Floor		0.12 (ma			0.12 (max. 0.7		Pass		
Roof			(max. 0.20) 0.11 (max (max. 2.00) 1.30 (max				Pass		
Openings 1.18 (max.			x. 2.00)		30)	Pass			
2a Thermal bridgin									
_	ng calculated from linea	artherma	ii transmit	tances for each	Junction				
<u>3 Air permeability</u>						1			
Air permeability at 50 pascals			7.01 (design value)			$m^{3}/(h.m^{2}) @ 50 Pa$			
Maximum			10.0] m³/(h.m²) @ 50 P	a Pass		
Limiting System Ef	ficiencies								
<u>4 Heating efficience</u>	¥								

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



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database	Pass			
	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 fittings	100 %				
Minimum	75 %	Pass			
8 Mechanical ventilation					
Not applicable					
riterion 3 – Limiting the effects of heat gains in su	mmer				
Summertime temperature					
Overheating risk (Thames Valley)	Slight	Pass			
ased on:					
Overshading	Average				
Windows facing South East	3.95 m ² , No overhang				
Windows facing North West	3.53 m ² , No overhang				
Air change rate	4.00 ach				
Blinds/curtains	None				
riterion 4 – Building performance consistent with	DER and DFEE rate				
Party Walls	United				
Туре	U-value	Dass			
Type Filled Cavity with Edge Sealing	U-value 0.00 W/m ² K	Pass			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing		Pass			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u>	0.00 W/m²K				
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals	0.00 W/m ² K 7.01 (design value) m ³ /(h.m ²) @ 50 Pa	a			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum	0.00 W/m²K	a			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum <u>D Key features</u>	0.00 W/m²K 7.01 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa	a			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum <u>0 Key features</u> Party wall U-value	0.00 W/m²K 7.01 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa 0.00 W/m²K	a			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 0 Key features Party wall U-value Roof U-value	0.00 W/m²K 7.01 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa 0.00 W/m²K 0.11 W/m²K	a			
Type Filled Cavity with Edge Sealing Air permeability and pressure testing <u>3 Air permeability</u> Air permeability at 50 pascals Maximum <u>0 Key features</u> Party wall U-value	0.00 W/m²K 7.01 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa 0.00 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	£29	B 85	B 88	Recommended
Photovoltaic	£3,500 - £5,500	£333	A 96	A 98	Recommended
Wind turbine			0	0	Not applicable
Totals	£7,500 - £11,500	£362	A 96	A 98	
			_ 7		

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