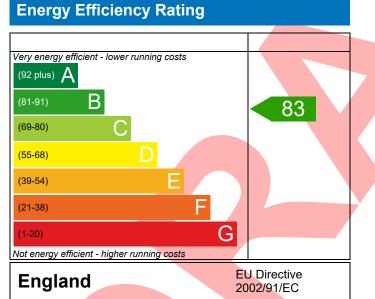
PREDICTED ENERGY ASSESSMENT



Plot 154, 2 Bed, K, WC, B Dwelling type: Date of assessment: Produced by: Total floor area: House, Semi-Detached 19/02/2024 Henry Knight 70.84 m²

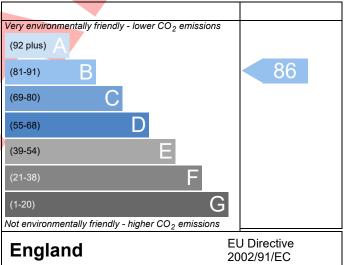
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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-U528-4444-154				Issued on Date	19/02/202
Assessment Reference	154		P	rop Type Ref	2B HT B Semi (As)	
Property	Plot 154, 2 Bed, K, WC	, B				
SAP Rating		83 B	DER	18.78	TER	19.55
Environmental		86 B	% DER <ter< td=""><td></td><td>3.93</td><td></td></ter<>		3.93	
CO₂ Emissions (t/year)		1.11	DFEE	48.60	TFEE	54.09
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>10.15</td><td></td></tfee<>		10.15	
	. Henry Knight, Henry K nry.knight@aessc.co.uk	-	183565,		Assessor ID	U528-0002
Client						
UMARY FOR INPUT DA	TA FOR New Build (As	Designed)				
riterion 1 – Achieving t	the TER and TFEE rate					
a TER and DER						
Fuel for main heating	5	Mains g	as			
Fuel factor		1.00 (ma	1.00 (mains gas)			
Target Carbon Dioxide Emission Rate (TER)		19.55			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)		18.78			kgCO ₂ /m ²	Pass
		-0.77 (-3	3.9%)		kgCO ₂ /m ²	
b TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		54.09			kWh/m²/yr	
Dwelling Fabric Energy Efficiency (DFEE)		48.60	7		kWh/m²/yr	
		-5.5 (-10	0.2%)		kWh/m²/yr	Pass
riterion 2 – Limits on d	lesign flexibility					
Limiting Fabric Stand	dards		-			
2 Fabric U-values						
Element	A	verage	l l	lighest		
External wall		25 (max. 0.30)).25 (max. 0.7	0)	Pass
Party wall		00 (max. 0.20)		_	- /	Pass
Floor		18 (max. 0.25)	().18 (max. 0.7	0)	Pass
Roof		11 (max. 0.20)).11 (max. 0.3		Pass
Openings		38 (max. 2.00)		L.40 (max. 3.3		Pass
2a Thermal bridging					- /	
	calculated from linear t	hermal transmit	tances for each iu	unction		
<u>3 Air permeability</u>	calculated from fined to					
		E 04 (-)-			3//1 2) 0 50 5	
Air permeability at 50 pascals			5.01 (design value)		$m^3/(h.m^2) @ 50 Pa$	
D. A an elization		10.0			m³/(h.m²) @ 50 Pa	Pass
Maximum Limiting System Effic						

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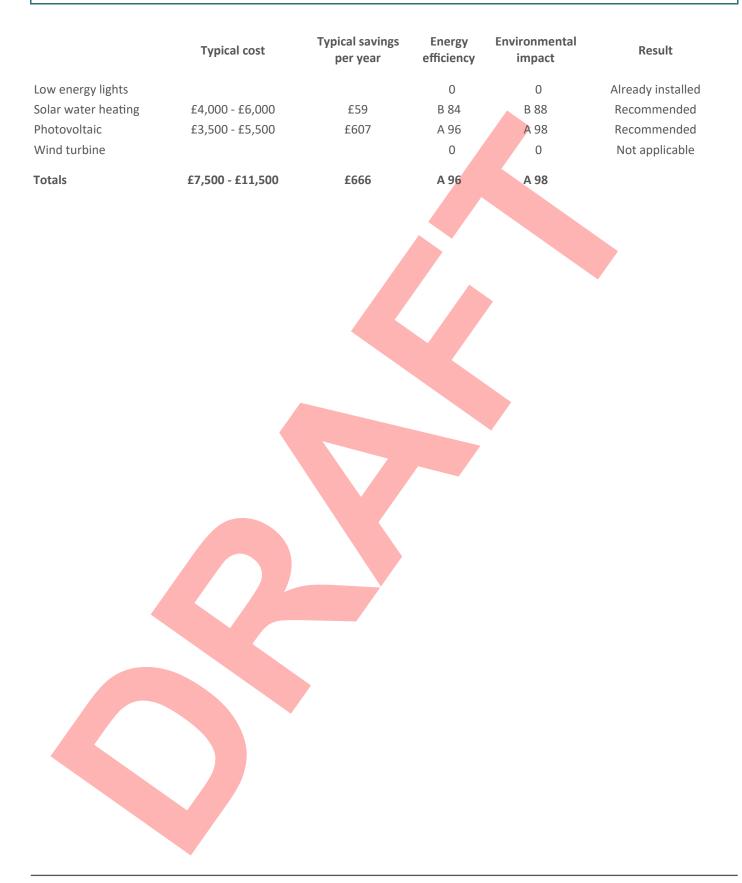
Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Worcester Greenstar 32CDi Compact ErP	
	Combi boiler Efficiency: 89.8% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</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	73 70	F d 3 3
Not applicable		
iterion 3 – Limiting the effects of heat gains in su	mmer	
Summertime temperature		
Overheating risk (South West England)	Not significant	Pass
ased on:	not significant	
Overshading	Average	
Windows facing East	5.26 m ² , No overhang	
Windows facing West	4.04 m ² , No overhang	
Air change rate	3.00 ach	
Blinds/curtains	None	
Billius/curtains	None	
riterion 4 – Building performance consistent with		
riterion 4 – Building performance consistent with	DER and DFEE rate	
riterion 4 – Building performance consistent with Party Walls	DER and DFEE rate	Pass
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	DER and DFEE rate	Pass
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	DER and DFEE rate U-value 0.00 W/m ² K	
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	DER and DFEE rate U-value 0.00 W/m ² K 5.01 (design value) m ³ /(h.m ²) @ 50 P	a
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	DER and DFEE rate U-value 0.00 W/m ² K	a
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals	DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 P 10.0 m³/(h.m²) @ 50 P	a
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	DER and DFEE rate U-value 0.00 W/m ² K 5.01 (design value) m ³ /(h.m ²) @ 50 P	a
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum D Key features	DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 P 10.0 m³/(h.m²) @ 50 P	a
riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum D Key features Party wall U-value	DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 50 P 10.0 m³/(h.m²) @ 50 P 0.00 W/m²K	

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RECOMMENDATIONS





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