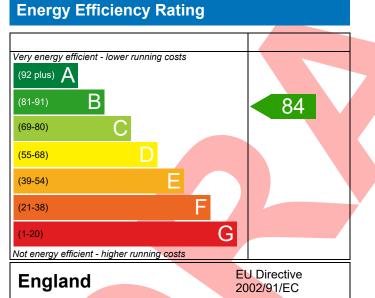


Masonry, Plot 67, 1 Bed, K, B Dwelling type: Date of assessment: Produced by: Total floor area: Flat, Mid-Terrace 06/08/2021 Mitchell Bennellick 49.5 m<sup>2</sup>

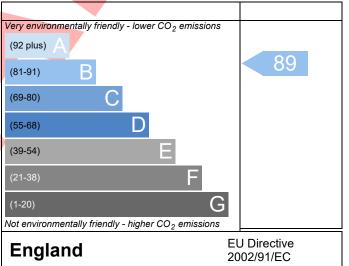
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 (CO<sub>2</sub>) 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 Assessment	067		P	rop Type Ref	Flat (G/F)	
Reference					· · ·	
Property	Masonry, Plot 67, 1 Bed,	К, В				
SAP Rating		84 B	DER	18.22	TER	20.25
Environmental		89 B	% DER <ter< td=""><td></td><td>10.02</td><td></td></ter<>		10.02	
CO <sub>2</sub> Emissions (t/year)		0.74	DFEE	37.77	TFEE	46.23
General Requirements	Compliance	Pass	% DFEE <tfee< td=""><td></td><td>18.30</td><td></td></tfee<>		18.30	
	r. Silvio Junges, Silvio Jung vio.junges@aessouthern.c		242050,		Assessor ID	P635-0001
Client						
UMARY FOR INPUT DA	TA FOR New Build (As De	esigned)				
riterion 1 – Achieving	the TER and TFEE rate					
a TER and DER						
Fuel for main heatin	b	Mains g	as			
Fuel factor	-		ains gas)			
Target Carbon Dioxide Emission Rate (TER)		20.25			kgCO <sub>2</sub> /m <sup>2</sup>	
Dwelling Carbon Dioxide Emission Rate (DER)		18.22			kgCO <sub>2</sub> /m <sup>2</sup>	Pass
		-2.03 (-1	10.0%)		kgCO <sub>2</sub> /m <sup>2</sup>	
b TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		46.23			kWh/m²/yr	
Dwelling Fabric Ener	gy Efficiency (DFEE)	37.77			kWh/m²/yr	
		-8.4 (-18	3.2%)		kWh/m²/yr	Pass
riterion 2 – Limits on c	lesign flexibility					
Limiting Fabric Stan	dards		_			
2 Fabric U-values						
Element	Ave	rage	1	Highest		
External wall	0.23	(max. 0.30)	(	0.26 (max. 0.70	D)	Pass
Party wall	0.00	(max. 0.20)		-		Pass
Floor 0.11 (		. (max. 0.25)	nax. 0.25) 0.11 (ma		))	Pass
Openings 1.34 (		(max. 2.00)	max. 2.00) 1.40 (max. 3.3		))	Pass
2a Thermal bridging						
Thermal bridging	calculated from linear the	ermal transmit	tances for each ju	unction		
3 Air permeability						
Air permeability at 50 pascals		5.01 (de	sign value)	m³/(h.m²) @ 50 Pa		
	10.0			m³/(h.m²) @ 50 Pa		
Maximum		<u>.</u>			•	
Limiting System Efficiency	ciencies					

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



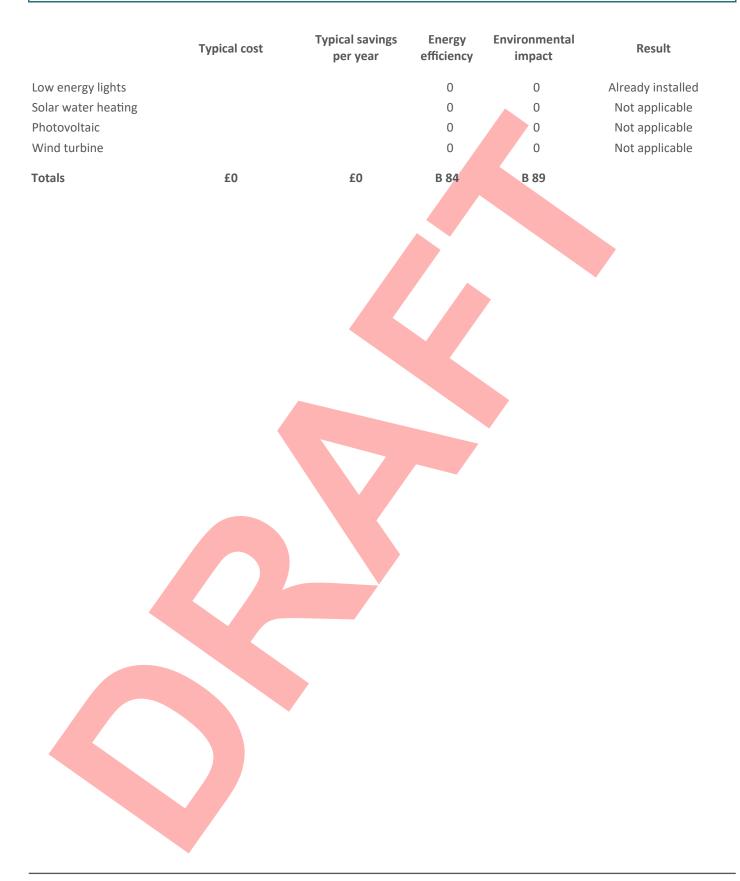
Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Ideal LOGIC COMBI ESP1 30 Combi boiler	
	Efficiency: 89.6% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space 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		
iterion 3 – Limiting the effects of heat gains in su	ummer	
Summertime temperature		
Overheating risk (South East England)	Medium	Pass
sed on:		
Overshading	Average	
Overshading Windows facing North East	Average 3.60 m <sup>2</sup> , No overhang	
-		
Windows facing North East	3.60 m <sup>2</sup> , No overhang	
Windows facing North East Air change rate Blinds/curtains	3.60 m <sup>2</sup> , No overhang 2.00 ach None	
Windows facing North East Air change rate Blinds/curtains	3.60 m <sup>2</sup> , No overhang 2.00 ach None	
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with	3.60 m <sup>2</sup> , No overhang 2.00 ach None	
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls	3.60 m <sup>2</sup> , No overhang 2.00 ach None DER and DFEE rate	Pass
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type	3.60 m <sup>2</sup> , No overhang 2.00 ach None DER and DFEE rate U-value	Pass
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	3.60 m <sup>2</sup> , No overhang 2.00 ach None DER and DFEE rate U-value	Pass
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	3.60 m <sup>2</sup> , No overhang 2.00 ach None DER and DFEE rate U-value	Pass
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00	
Windows facing North East Air change rate Blinds/curtains iterion 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	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00   W/m²K   5.01 (design value)   m³/(h.m²) @ 50 Pa	
Windows facing North East Air change rate Blinds/curtains iterion 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	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00   W/m²K   5.01 (design value)   m³/(h.m²) @ 50 Pa	
Windows facing North East Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability Air permeability at 50 pascals Maximum Key features	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00 W/m²K   5.01 (design value) m³/(h.m²) @ 50 Pa   10.0 m³/(h.m²) @ 50 Pa	
Windows facing North East Air change rate Blinds/curtains iterion 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 Key features Party wall U-value	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00 W/m²K   5.01 (design value) m³/(h.m²) @ 50 Pa   10.0 m³/(h.m²) @ 50 Pa   0.00 W/m²K	
Windows facing North East Air change rate Blinds/curtains iterion 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 Key features Party wall U-value Floor U-value	3.60 m², No overhang   2.00 ach   None   DER and DFEE rate   U-value   0.00 W/m²K   5.01 (design value) m³/(h.m²) @ 50 Pa   10.0 m³/(h.m²) @ 50 Pa   0.00 W/m²K   0.11 W/m²K	Pass

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## RECOMMENDATIONS





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