PREDICTED ENERGY ASSESSMENT

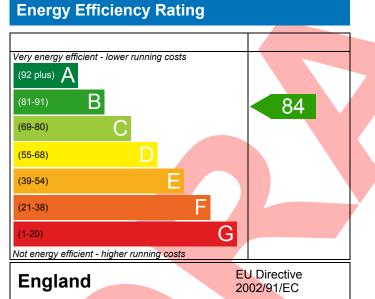


Plot 233, 3 Bed, K, WC, B, ES Dwelling type: Date of assessment: Produced by: Total floor area:

House, Mid-Terrace 02/11/2020 Silvio Junges 71.56 m²

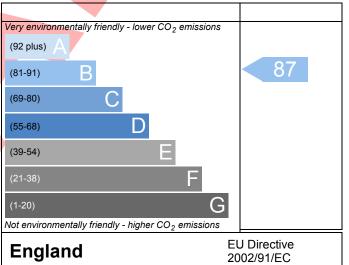
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance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



Assessment	233				Prop Type Ref	Emmett - Mid (As)	
Reference		14/0 D FC					
Property	Plot 233, 3 Bed, K	WC, B, ES					
SAP Rating			84 B	DER	17.57	TER	17.99
Environmental			87 B	% DER <ter< td=""><td></td><td>2.31</td><td></td></ter<>		2.31	
CO ₂ Emissions (t/yea	·)		1.04	DFEE	42.58	TFEE	47.07
General Requirement	s Compliance		Pass	% DFEE <tfe< td=""><td></td><td>9.53</td><td></td></tfe<>		9.53	
	∕Ir. Silvio Junges, Silvi ilvio.junges@aessou			242050,		Assessor ID	P637-0001
Client							
UMARY FOR INPUT D	ATA FOR New Build	(As Design	ed)				
riterion 1 – Achieving	the TER and TFEE ra	ate					
a TER and DER							
Fuel for main heati	ng		Mains g	as			
Fuel factor	0			ains gas)			
Target Carbon Diox	ide Emission Rate (T	ER)	17.99			kgCO ₂ /m ²	
0	oxide Emission Rate		17.57			kgCO ₂ /m ²	Pass
U		. ,	-0.42 (-2	2.3%)		kgCO ₂ /m ²	
b TFEE and DFEE				,			
Target Fabric Energ	y Efficiency (TFEE)		47.07			kWh/m²/yr	
Dwelling Fabric Ene	ergy Efficiency (DFEE)		42.58			kWh/m²/yr	
			-4.5 (-9.	6%)		kWh/m²/yr	Pass
riterion 2 – Limits on	design flexibility						
Limiting Fabric Sta	ndards			-			
2 Fabric U-values							
Element		Average			Highest		
External wa		0.25 (ma			0.25 (max. 0.7	(0)	Pass
Party wall		0.00 (ma			_	- /	Pass
Floor		0.16 (ma			0.16 (max. 0.7	(0)	Pass
Roof		0.18 (ma	,		0.21 (max. 0.3	*	Pass
Openings		1.36 (ma	,		1.40 (max. 3.3	,	Pass
2a Thermal bridgin	g		,		,		
	g calculated from lin	ear therma	al transmit	tances for each	iunction		
3 Air permeability							
Air permeability	vat 50 pascals		5 01 (do	sign value)			
Maximum			10.0			$m^{3}/(h.m^{2}) @ 50 Pa$ m ³ /(h.m ²) @ 50 Pa	
Waxillulli			10.0				Pass
Limiting System Ef							

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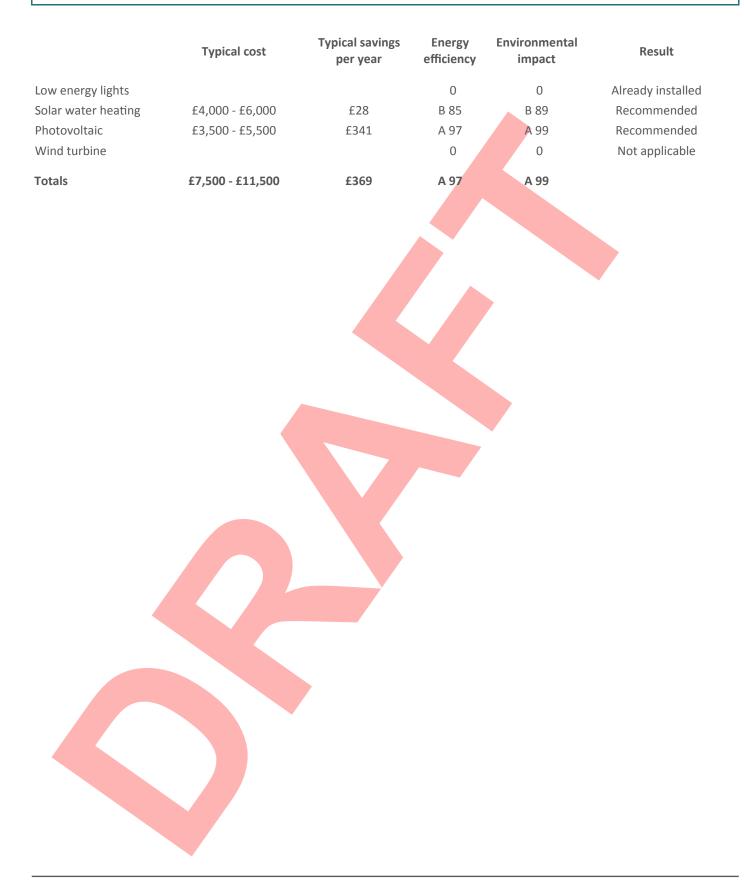
Main heating system	Boiler system with radiators or underfloor - Mains gas	Pass
	Data from database	
	Ideal LOGIC COMBI ESP1 30 Combi boiler	
	Efficiency: 89.6% SEDBUK2009	
	Minimum: 88.0%	
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
<u>6 Controls</u>		
Space heating controls	Programmer, room thermostat and TRVs	Pass
Hot water controls	No cylinder	
Boiler interlock	Yes	Pass
7 Low energy lights		
Percentage of fixed lights with low-energy	100 %	
fittings		r
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
iterion 3 – Limiting the effects of heat gains in su	mmer	
	mmer	
	mmer Medium	Pas
Summertime temperature Overheating risk (Thames Valley)		Pass
Summertime temperature Overheating risk (Thames Valley)	Medium Average	Pass
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East	Medium Average 7.29 m ² , No overhang	Pas:
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West	Medium Average 7.29 m ² , No overhang 3.94 m ² , No overhang	Pas:
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach	Pass
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None	Pas:
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None	Pass
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate	Pass
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type	Medium Average 7.29 m ² , No overhang 3.94 m ² , No overhang 4.00 ach None DER and DFEE rate U-value	
ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate	Pass
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains riterion 4 – Building performance consistent with Party Walls Type	Medium Average 7.29 m ² , No overhang 3.94 m ² , No overhang 4.00 ach None DER and DFEE rate U-value	
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains iterion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	Medium Average 7.29 m ² , No overhang 3.94 m ² , No overhang 4.00 ach None DER and DFEE rate U-value	
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains titerion 4 – Building performance consistent with Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate U-value 0.00 W/m²K	 Pas
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West 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	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 5	 Pas
Summertime temperature Overheating risk (Thames Valley) sed on: Overshading Windows facing East Windows facing West 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	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 5	 Pas
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West 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	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 5 10.0 m³/(h.m²) @ 5	 Pas
Summertime temperature Overheating risk (Thames Valley) ased on: Overshading Windows facing East Windows facing West Air change rate Blinds/curtains 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	Medium Average 7.29 m², No overhang 3.94 m², No overhang 4.00 ach None DER and DFEE rate U-value 0.00 W/m²K 5.01 (design value) m³/(h.m²) @ 5 10.0 m³/(h.m²) @ 5 0.00 W/m²K	 Pas

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RECOMMENDATIONS





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