PREDICTED ENERGY ASSESSMENT



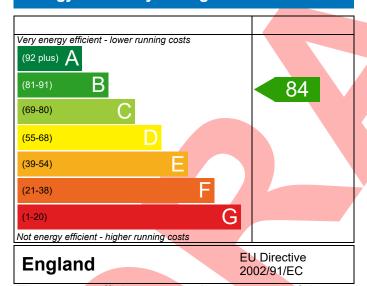
Plot 083, 2 Bed, Dwelling type: Flat, Semi-Detached

K, B Date of assessment: 05/11/2020
Produced by: Silvio Junges
Total floor area: 61.48 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.

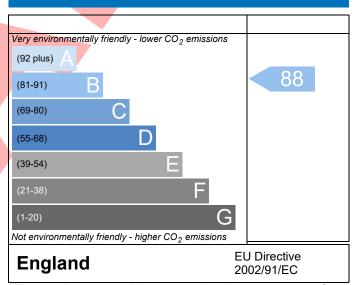
The energy performance has been assessed using the Government approved SAP2012 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO₂) emissions.

Energy Efficiency Rating



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 (CO₂) 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-	0015-4444-083				Issued on Date	05/11/2020	
Assessment 083							
Reference							
Property Plot 0	83, 2 Bed, K, B						
SAP Rating		84 B	DER	17.85	TER	18.58	
Environmental		88 B	% DER <ter< td=""><td></td><td>3.94</td><td></td></ter<>		3.94		
CO ₂ Emissions (t/year)		0.90	DFEE	41.50	TFEE	43.92	
General Requirements Compl	iance	Pass	% DFEE <tfee< td=""><td></td><td>5.52</td><td></td></tfee<>		5.52		
	Junges, Silvio Junge		242050,		Assessor ID	P637-0001	
	silvio.junges@aessouthern.co.uk						
Client Baker Esta	ates						
SUMARY FOR INPUT DATA FOR	R New Build (As Des	igned)					
Criterion 1 – Achieving the TER	and TFEE rate						
a TER and DER							
Fuel for main heating		Mains ga	as				
Fuel factor		1.00 (ma	nins gas)				
Target Carbon Dioxide Emission Rate (TER)		18.58			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)		17.85		kgCO ₂ /m ²	Pass		
		-0.73 (-3	.9%)		kgCO ₂ /m ²		
.b TFEE and DFEE	(7555)	42.02			134/1 / 2/		
Target Fabric Energy Efficier		43.92			kWh/m²/yr		
Dwelling Fabric Energy Effic	iency (DFEE)	41.50	70/)		kWh/m²/yr		
Suitavian 2 - Limita an dasian f	lovibility	-2.4 (-5.5	5%)		kWh/m²/yr	Pass	
Criterion 2 – Limits on design f	lexibility		_				
Limiting Fabric Standards							
2 Fabric U-values				li ala a ak			
Element	Avera	_		lighest	Dana		
External wall		max. 0.30)	U	0.30 (max. 0.7	0)	Pass	
Party wall Roof		max. 0.20) max. 0.20)	-).11 (max. 0.3	E)	Pass	
Openings	· ·			40 (max. 0.3	*	Pass Pass	
2a Thermal bridging	1.25 (max. 2.00)	1	 0 (111ax. 3.3	<i>O</i> ,	_ Fass	
Thermal bridging calcula	ted from linear ther	mal transmit	tances for each in	ınction			
3 Air permeability	ited from mear ther	ווומו נומוואווונו	lances for each ju	IIICUUII			
	oscals	E 01 /da	sign value)	m ³ //h m ² \ @ FO D	2		
Air permeability at 50 pascals Maximum		5.01 (design value) 10.0			m ³ /(h.m ²) @ 50 Pa m ³ /(h.m ²) @ 50 Pa Pass		
		10.0			111 / (11.111) @ 30 P	a <u>PdSS</u>	
Limiting System Efficiencies							

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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			
	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	100 %			
fittings				
Minimum	75 %	Pass		
8 Mechanical ventilation				
Not applicable				
Criterion 3 – Limiting the effects of heat gains in sun	nmer			
9 Summertime temperature				
Overheating risk (South West England)	Not significant	Pass		
Based on:				
Overshading	Average			
Windows facing East	2.57 m², No overhang			
Windows facing South	3.00 m ² , No overhang			
Air change rate	4.00 ach			
Blinds/curtains None				
Criterion 4 – Building performance consistent with I	DER and DFEE rate			
Party Walls				
Туре	U-value			
Filled Cavity with Edge Sealing	0.00 W/m ² K	Pass		
Air permeability and pressure testing				
3 Air permeability				
Air permeability at 50 pascals	5.01 (design value) m ³ /(h.m ²) @ 50 Pa			
Maximum	10.0 m ³ /(h.m ²) @ 50 Pa	Pass		
10 Key features				
Party wall U-value	0.00 W/m²K			
Roof U-value	0.11 W/m²K			
Door U-value	0.81 W/m²K			

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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.14r16

RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating			0	0	Not applicable
Photovoltaic			0	0	Not applicable
Wind turbine			0	0	Not applicable
Totals	£0	£0	B 84	B 88	



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