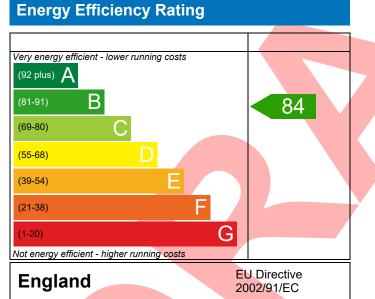
PREDICTED ENERGY ASSESSMENT



Plot 089, 2 Bed, K, B Dwelling type: Date of assessment: Produced by: Total floor area: Flat, Semi-Detached 10/10/2019 Mitchell Bennellick 70.55 m²

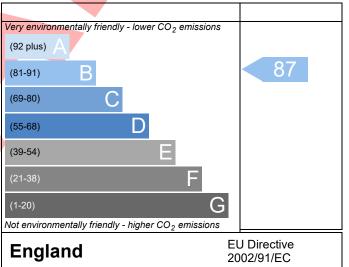
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.11r11

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



Property Reference	4907-0012-4615-089				Issued on Date	10/10/2019
Assessment	089	Prop Type Ref 2BF - GFF - Semi				
Reference						
Property	Plot 089, 2 Bed, K, B					
SAP Rating		84 B	DER	18.29	TER	19.94
Environmental		87 B	% DER <ter< td=""><td></td><td>8.27</td><td></td></ter<>		8.27	
CO ₂ Emissions (t/year)		1.06	DFEE	47.05	TFEE	54.99
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>14.43</td><td></td></tfee<>		14.43	
Assessor Details M	s. Eloise Utley, Eloise Utley	/ , Tel: 01884 2	42050, elois <mark>e.utle</mark>	ey@aessc.co.ul	Assessor ID	P635-0001
SUMARY FOR INPUT DA	ATA FOR New Build (As De	signed)				
Criterion 1 – Achieving	the TER and TFEE rate					
1a TER and DER						
Fuel for main heatin	Mains gas					
Fuel factor	1.00 (ma	iins gas)				
Target Carbon Dioxide Emission Rate (TER)		19.94			kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)		18.29			kgCO ₂ /m ²	Pass
		-1.65 (-8	.3%)		kgCO ₂ /m ²	
1b TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		54.99 kWh/m²/y				
Dwelling Fabric Energy Efficiency (DFEE)		47.05	40()		kWh/m²/yr	Dava
Criterion 2 – Limits on c	locian flovibility	-7.9 (-14	.4%)		kWh/m²/yr	Pass
Limiting Fabric Stan						
-	uarus					
<u>2 Fabric U-values</u> Element	0.00			iahaat		
External wall	Aver	(max. 0.30)		l ighest .25 (max. 0.70))	Pass
Party wall		(max. 0.30) (max. 0.20)	-)	Pass
Floor		(max. 0.25)		.13 (max. 0.70))	Pass
Openings		(max. 2.00)		.88 (max. 3.30)		Pass
2a Thermal bridging		· · · ·		,	,	
	calculated from linear the	ermal transmitt	ances for each iu	nction		
<u>3 Air permeability</u>			2			
Air permeability	at 50 pascals	4.50 (de	sign value)		m³/(h.m²) @ 50 Pa	l
Maximum		10.0	<u> </u>		m³/(h.m²) @ 50 Pa	
Limiting System Efficiency	ciencies					
<u>4 Heating efficiency</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	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 fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation		
Continuous extract system (decentralised)		
Specific fan power	0.1600 0.1800]
Maximum	0.7	Pass
Culturing 2. Limiting the offects of best sains in sum	mer	
Criterion 3 – Limiting the effects of heat gains in sum		
9 Summertime temperature		
	Medium	Pass
9 Summertime temperature		Pass
<u>9 Summertime temperature</u> Overheating risk (South East England)	Medium Average	Pass
<u>9 Summertime temperature</u> Overheating risk (South East England) Based on: Overshading Windows facing North East	Medium Average 3.02 m ² , No overhang	Pass
<u>9 Summertime temperature</u> Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West	Medium Average 3.02 m ² , No overhang 5.27 m ² , No overhang	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None] Pass]]]
 9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type	Medium Average 3.02 m ² , No overhang 5.27 m ² , No overhang 2.00 ach None ER and DFEE rate U-value	
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	Medium Average 3.02 m ² , No overhang 5.27 m ² , No overhang 2.00 ach None ER and DFEE rate U-value	
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K	
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability Air permeability at 50 pascals	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K 4.50 (design value) m³/(h.m²) @ 50 Pa	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K	
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 10 Key features	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K 4.50 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K 4.50 (design value) m³/(h.m²) @ 50 Pa	Pass
9 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains Criterion 4 – Building performance consistent with D Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 10 Key features	Medium Average 3.02 m², No overhang 5.27 m², No overhang 2.00 ach None ER and DFEE rate U-value 0.00 W/m²K 4.50 (design value) m³/(h.m²) @ 50 Pa 10.0 m³/(h.m²) @ 50 Pa	Pass

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RECOMMENDATIONS





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Regs Region: England Elmhurst Energy Systems SAP2012 Calculator (Design System) version 4.11r11