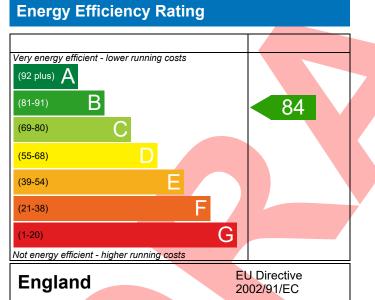
PREDICTED ENERGY ASSESSMENT



Plot 092, 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

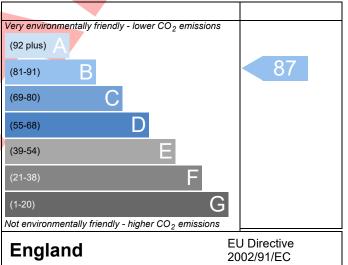
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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	4907-0012-4615-09	92				Issued on Date	10/10/2019
Assessment	092			Р	rop Type Ref	2BF - 1FF - Semi	
Reference							
Property	Plot 092, 2 Bed, K,	В					
SAP Rating			84 B	DER	17.32	TER	19.21
Environmental			87 B	% DER <ter< th=""><th></th><th>9.85</th><th></th></ter<>		9.85	
CO ₂ Emissions (t/year)			1.02	DFEE	43.39	TFEE	51.24
General Requiremen	nts Compliance		Pass	% DFEE <tfee< th=""><th></th><th>15.32</th><th></th></tfee<>		15.32	
Assessor Details	Ms. Eloise Utley, Eloise	Utley , Te	el: 01884 2	42050, eloise.utl	ey@aessc.co.u	uk Assessor ID	P635-0001
Client							
SUMARY FOR INPUT	DATA FOR New Build (As Design	ied)				
	ng the TER and TFEE rat						
1a TER and DER	0						
Fuel for main hear	ting		Mains ga				
Fuel factor			1.00 (ma				
Target Carbon Dic	oxide Emission Rate (TE	R)	19.21			kgCO ₂ /m ²	
-	Dioxide Emission Rate (17.32			kgCO ₂ /m ²	Pass
			-1.89 (-9	.8%)		kgCO ₂ /m ²	
<u>1b TFEE and DFEE</u>							
Target Fabric Ener	rgy Efficiency (TFEE)		51.24			kWh/m²/yr	
Dwelling Fabric Er	nergy Efficiency (DFEE)		43.39			kWh/m²/yr	
			-7.8 (-15	.2%)		kWh/m²/yr	Pass
Criterion 2 – Limits o	n design flexibility			_			
Limiting Fabric St	andards						
2 Fabric U-values							
Element		Average		I	Highest		
External w	all	0.22 (ma	ax. 0.30)	(0.25 (max. 0.7	0)	Pass
Party wall		0.00 (ma			-		Pass
Roof		0.11 (ma			0.11 (max. 0.3		Pass
Openings		1.50 (ma	ax. 2.00)	-	1.88 (max. 3.3)	0)	Pass
2a Thermal bridgi							
-	ing calculated from line	ar therma	al transmit	ances for each ju	unction		
<u>3 Air permeability</u>	X						
Air permeabili	ty at 50 pascals			sign value)		m³/(h.m²) @ 50 Pa	
Maximum			10.0			m³/(h.m²) @ 50 Pa	Pass
Limiting System E							
<u>4 Heating efficien</u>	icy						

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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)



Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Ideal LOGIC COMBI ESP1 35 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	Pass
Secondary heating system	None	
5 Cylinder insulation		
Hot water storage	No cylinder	
6 Controls		
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
riterion 3 – Limiting the effects of heat gains in s	summer	
	Slight	Pass
Summertime temperature Overheating risk (South East England)		Pass
Summertime temperature Overheating risk (South East England) ased on: Overshading	Slight Average	Pass
<u>Summertime temperature</u> Overheating risk (South East England) ased on: Overshading Windows facing North East	Slight Average 3.02 m ² , No overhang	Pass
Summertime temperature Overheating risk (South East England) ased on: Overshading Windows facing North East Windows facing North West	Slight Average 3.02 m ² , No overhang 5.27 m ² , No overhang	Pass
Summertime temperature Overheating risk (South East England) ased on: Overshading Windows facing North East Windows facing North West Air change rate	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach	Pass
Summertime temperature Overheating risk (South East England) ased on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains	Slight Average 3.02 m ² , No overhang 5.27 m ² , No overhang 4.00 ach None	Pass
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 wit	Slight Average 3.02 m ² , No overhang 5.27 m ² , No overhang 4.00 ach None	Pass
 Summertime temperature Overheating risk (South East England) Based on: Overshading Windows facing North East Windows facing North West	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None ch DER and DFEE rate	Pass
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 wit Party Walls Type	Slight Average 3.02 m ² , No overhang 5.27 m ² , No overhang 4.00 ach None th DER and DFEE rate U-value	
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 wit Party Walls Type Filled Cavity with Edge Sealing	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None ch DER and DFEE rate	Pass
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 wit Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing	Slight Average 3.02 m ² , No overhang 5.27 m ² , No overhang 4.00 ach None th DER and DFEE rate U-value	
Summertime temperature Overheating risk (South East England) ased on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains riterion 4 – Building performance consistent wit Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None th DER and DFEE rate U-value 0.00 W/m²K	
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 wit Party Walls Type Filled Cavity with Edge Sealing Air permeability Air permeability at 50 pascals	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None th DER and DFEE rate U-value 0.00 W/m²K	Pass
Summertime temperature Overheating risk (South East England) ased on: Overshading Windows facing North East Windows facing North West Air change rate Blinds/curtains riterion 4 – Building performance consistent wit Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None th DER and DFEE rate U-value 0.00 W/m²K	
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 Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals Maximum 0 Key features	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None th DER 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
 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 wite Party Walls Type Filled Cavity with Edge Sealing Air permeability and pressure testing 3 Air permeability Air permeability at 50 pascals 	Slight Average 3.02 m², No overhang 5.27 m², No overhang 4.00 ach None th DER and DFEE rate U-value 0.00 W/m²K	Pass

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RECOMMENDATIONS





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