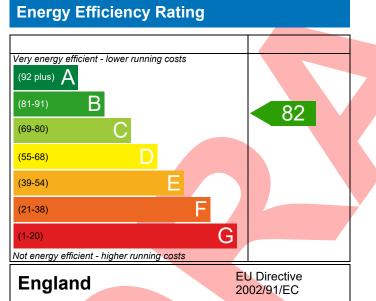
PREDICTED ENERGY ASSESSMENT



Plot 328, 3 Bed, K, WC, B, ES Dwelling type: Date of assessment: Produced by: Total floor area: House, Detached 09/09/2021 Eloise Utley 80.36 m²

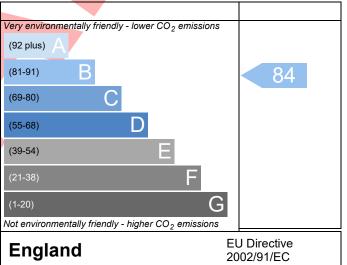
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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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Page 1 of 4

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

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



Property Reference	4907-0026-5526-328 Issued on Date 09/09					09/09/2021
Assessment	Plot 328 Prop Type Ref Eveleigh - Det - OP					
Reference		D FC				
Property	Plot 328, 3 Bed, K, WC	, B, ES				
SAP Rating		82 B	DER	19.83	TER	19.92
Environmental		84 B	% DER <ter< td=""><td></td><td>0.46</td><td></td></ter<>		0.46	
CO ₂ Emissions (t/year)		1.34	DFEE	53.87	TFEE	60.13
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td></td><td>10.40</td><td></td></tfee<>		10.40	
	r. Silvio Junges, Silvio Ju vio.junges@aessoutheri	•	242050,		Assessor ID	T714-0001
Client						
UMARY FOR INPUT DA	ATA FOR New Build (As	Designed)				
riterion 1 – Achieving	the TER and TFEE rate					
a TER and DER						
Fuel for main heatin	g	Mains g	as			
Fuel factor			1.00 (mains gas)			
Target Carbon Dioxi	19.92			kgCO ₂ /m ²		
Dwelling Carbon Dioxide Emission Rate (DER)		() 19.83			kgCO ₂ /m ²	Pass
		-0.09 (-0	0.5%)		kgCO ₂ /m ²	
b TFEE and DFEE						
Target Fabric Energy Efficiency (TFEE)		60.13			kWh/m²/yr	
Dwelling Fabric Ener	gy Efficiency (DFEE)	53.87			kWh/m²/yr	
		-6.2 (-10	0.3%)		kWh/m²/yr	Pass
riterion 2 – Limits on o	design flexibility		_			
Limiting Fabric Stan	dards					
2 Fabric U-values						
Element	A	verage		Highest		
External wall		25 (max. 0.30)		0.25 (max. 0.70))	Pass
Party wall		00 (max. 0.20)		-		Pass
Floor		19 (max. 0.25)		0.19 (max. 0.70		Pass
Roof		12 (max. 0.20)		0.12 (max. 0.35		Pass
		36 (max. 2.00)	x. 2.00) 1.40 (max. 3.3))	Pass
2a Thermal bridging						
	calculated from linear	thermal transmit	ttances for each j	unction		
<u>3 Air permeability</u>						
Air permeability at 50 pascals			esign value)		m³/(h.m²) @ 50 Pa m³/(h.m²) @ 50 Pa Pass	
Maximum	10.0	10.0 m			Pass	
Limiting System Effi	ciencies					
4 Heating efficiency						

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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 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	100 %	
fittings		
Minimum	75 %	Pass
8 Mechanical ventilation		
Not applicable		
Criterion 3 – Limiting the effects of heat gains in su	mmer	
9 Summertime temperature		
Overheating risk (South East England)	Slight	Pass
Based on:		
Overshading	Average	
Windows facing North East	7.13 m ² , No overhang	
Windows facing South West	4.47 m ² , No overhang	
Windows facing North West	2.13 m ² , No overhang	4
Air change rate	4.00 ach	
Blinds/curtains	None	
Criterion 4 – Building performance consistent with	DER and DFEE rate	
Party Walls		
Туре	U-value	
	W/m²K	Pass
Air permeability and pressure testing		
<u>3 Air permeability</u>		
Air permeability at 50 pascals	5.01 (design value) m ³ /(h.m ²) @ 50 Pa	
Maximum	10.0 m³/(h.m²) @ 50 Pa	Pass
<u>10 Key features</u>		
Party wall U-value	0.00 W/m²K	
Roof U-value	0.12 W/m²K	
Door U-value	1.10 W/m²K	
Window U-value	0.90 W/m²K	
Thermal bridging y-value	0.030 W/m²K	

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RECOMMENDATIONS





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