PREDICTED ENERGY ASSESSMENT

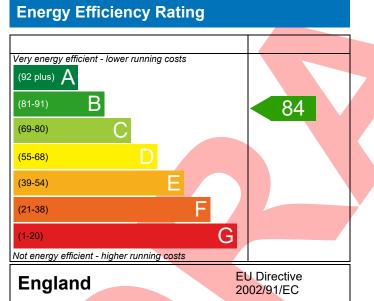


DAI, Plot 32, Sweet Hill, Southwell, Portland, Dorset, DT5 Dwelling type: Date of assessment: Produced by: Total floor area:

House, Detached 09/03/2023 Resi Resolve 103.96 m²

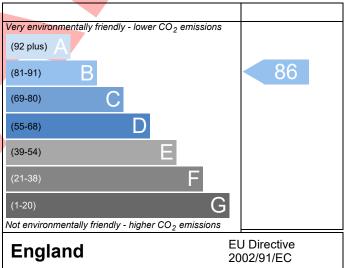
This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance 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 4.14r19

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

Design SAP elmhurst energy

Property	DAI, Plot 32, Sweet Hi	ll, Southwell, Por	tland, Dorset, DT5	5		
SAP Rating		84 B	DER	16.70	TER	27.35
Environmental		86 B	% DER <ter< th=""><th></th><th>38.95</th><th></th></ter<>		38.95	
CO₂ Emissions (t/yea	ar)	1.41	DFEE	48.75	TFEE	59.84
General Requirements Compliance		Pass	% DFEE <tfee< td=""><td colspan="3">E<tfee 18.52<="" td=""></tfee></td></tfee<>	E <tfee 18.52<="" td=""></tfee>		
	Mrs. Georgina O'Connor, resolve.co.uk	Resi Resolve, Tel:	: 07748778047, ge	eorgie@resi-	Assessor ID	T293-0001
Client	Koori Limited, KOO					
UMARY FOR INPUT	DATA FOR New Build (As	Designed)				
Criterion 1 — Achievir	ng the TER and TFEE rate					
La TER and DER						
Fuel for main heat	ting	Electrici	ty			
Fuel factor		1.55 (ele	ectricity)			
Target Carbon Dio	oxide Emission Rate (TER)	27.35			kgCO ₂ /m ²	
Dwelling Carbon D	Dioxide Emission Rate (DE	R) 16.70			kgCO ₂ /m ²	Pass
		-10.65 (-	-38.9%)		kgCO ₂ /m ²	
b TFEE and DFEE						
Target Fabric Ener	59.84					
Dwelling Fabric Er	ergy Efficiency (DFEE)	48.75			kWh/m²/yr	
		-11.0 (-1	18.4%)		kWh/m²/yr	Pass
						•
			_			
Limiting Fabric Sta						
Limiting Fabric Sta <u>2 Fabric U-values</u>						
	andards	verage		lighest		
Limiting Fabric Sta 2 Fabric U-values Element External wa	andards All 0	.21 (max. 0.30)		lighest).21 (max. 0.70))	Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall	andards All 0 0	.21 (max. 0.30) .00 (max. 0.20)	0).21 (max. 0.70 -		Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor	andards All 0 0 0	.21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25)	0 - 0).21 (max. 0.70 -).11 (max. 0.70))	Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof	andards All 0 0 0 0	21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25) .11 (max. 0.20)	0 - 0 0).21 (max. 0.7(-).11 (max. 0.7().17 (max. 0.35)) 5)	Pass Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof Openings	andards All 0 0 0 1	.21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25)	0 - 0 0).21 (max. 0.70 -).11 (max. 0.70)) 5)	Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof Openings 2a Thermal bridgi	andards All O O O 1 ng	21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25) .11 (max. 0.20) .27 (max. 2.00)	0 - 0 0 1).21 (max. 0.7().11 (max. 0.7().17 (max. 0.35 30 (max. 3.30)) 5)	Pass Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof Openings 2a Thermal bridgi	andards A all 0 0 0 0 1 ng 'ng calculated from linear	21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25) .11 (max. 0.20) .27 (max. 2.00)	0 - 0 0 1).21 (max. 0.7().11 (max. 0.7().17 (max. 0.35 30 (max. 3.30)) 5)	Pass Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof Openings 2a Thermal bridgi Thermal bridgi	andards A all 0 0 0 0 1 ng ng calculated from linear 2	21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25) .11 (max. 0.20) .27 (max. 2.00) thermal transmit	0 - 0 1 tances for each ju).21 (max. 0.7().11 (max. 0.7().17 (max. 0.35 30 (max. 3.30) 5) 0)	Pass Pass Pass
Limiting Fabric Sta 2 Fabric U-values Element External wa Party wall Floor Roof Openings 2a Thermal bridgi Thermal bridgi	andards A all 0 0 0 0 1 ng 'ng calculated from linear	21 (max. 0.30) .00 (max. 0.20) .11 (max. 0.25) .11 (max. 0.20) .27 (max. 2.00) thermal transmit	0 - 0 0 1).21 (max. 0.7().11 (max. 0.7().17 (max. 0.35 30 (max. 3.30)) 5)	Pass Pass Pass

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



Main heating system	Heat pump with radiators or underfloor - Electric Vaillant aroTHERM 5kW VWL 55/3 A 230v	
Secondary heating system	None	
5 Cylinder insulation	L	
Hot water storage	Measured cylinder loss: 1.42 kwh/day	Pass
	Permitted by DBSCG 2.30	
Primary pipework insulated	Yes	Pass
<u>6 Controls</u>		
Space heating controls	Time and temperature zone control	Pass
Hot water controls	Cylinderstat	Pass
	Independent timer for DHW	Pass
7 Low energy lights		
Percentage of fixed lights with low-energy fittings	100 %	
Minimum	75 %	Pass
8 Mechanical ventilation	75 76	1 8 3 3
Not applicable		
Criterion 3 – Limiting the effects of heat gains in sur	mmer	
9 Summertime temperature		
Overheating risk (Southern England)	Not significant	Pass
Based on:	Not significant	1 435
Overshading	Average	
Windows facing North East	8.42 m ² , No overhang	
Windows facing South West	5.66 m ² , No overhang	
Air change rate	8.00 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	4.50 (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	0.10 W/m²K	
Floor U-value	0.11 W/m²K	
Door U-value	1.10 W/m²K	
Door U-value	1.00 W/m²K	
Thermal bridging y-value	0.027 W/m²K	

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RECOMMENDATIONS



	Typical cost	Typical savings per year	Energy efficiency	Environmental impact	Result
Low energy lights			0	0	Already installed
Solar water heating	£4,000 - £6,000	£205	B 87	B 88	Recommended
Photovoltaic	£3,500 - £5,500	£779	A 96	A 96	Recommended
Wind turbine			0	0	Not applicable
		0004			
Totals	£7,500 - £11,500	£984	A 96	A 96	
4					

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