

BASIC COMPLIANCE REPORT

Calculation Type: New Build (As Designed)

Property Reference	6369 - P2 - Nick B				Issued on Date	23/07/2024
Assessment Reference	6369 - P2			Prop Type Ref	Mid T	
Property	126, Blandford Road, Reading, Berkshire, RG2 8RX					
SAP Rating	85 B	DER	16.73	TER	25.54	
Environmental	87 B	% DER<TER	34.49			
CO ₂ Emissions (t/year)	1.22	DFEE	42.30	TFEE	50.03	
General Requirements Compliance	Pass	% DFEE<TFEE	15.45			
Assessor Details	Mr. Steve Saward, UKSAPs, Tel: 01763 241797, steve@uksaps.co.uk				Assessor ID	M911-0001
Client						

SUMMARY FOR INPUT DATA FOR New Build (As Designed)

Criterion 1 – Achieving the TER and TFEE rate

1a TER and DER

Fuel for main heating	Electricity		
Fuel factor	1.55 (electricity)		
Target Carbon Dioxide Emission Rate (TER)	25.54	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	16.73	kgCO ₂ /m ²	Pass
	-8.81 (-34.5%)	kgCO ₂ /m ²	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	50.03	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DFEE)	42.30	kWh/m ² /yr	
	-7.7 (-15.4%)	kWh/m ² /yr	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.18 (max. 0.30)	0.18 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.13 (max. 0.25)	0.13 (max. 0.70)	Pass
Roof	0.13 (max. 0.20)	0.16 (max. 0.35)	Pass
Openings	1.30 (max. 2.00)	1.30 (max. 3.30)	Pass

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

3 Air permeability

Air permeability at 50 pascals	5.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Heat pump with radiators or underfloor - Electric Mitsubishi Electric Ecodan 6.0 kW PUZ-WM60VAA	
Secondary heating system	None	

5 Cylinder insulation

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Hot water storage

No cylinder

6 Controls

Space heating controls

Time and temperature zone control

Pass

Hot water controls

No cylinder

7 Low energy lights

Percentage of fixed lights with low-energy fittings

100

%

Minimum

75

%

Pass

8 Mechanical ventilation

Not applicable

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)

Not significant

Pass

Based on:

Overshading

Average

Windows facing North East

5.28 m², No overhang

Windows facing South West

6.46 m², No overhang

Air change rate

8.00 ach

Blinds/curtains

None

Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type

U-value

Filled Cavity with Edge Sealing

0.00

W/m²K

Pass

Solid Wall

0.00

W/m²K

Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals

5.00 (design value)

Maximum

10.0

Pass

10 Key features

Party wall U-value

0.00

W/m²K

Party wall U-value

0.00

W/m²K

Roof U-value

0.11

W/m²K

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.