

BASIC COMPLIANCE REPORT

Calculation Type: New Build (As Designed)



Property Reference	18-049	Issued on Date	15/01/2019
Assessment Reference	As Designed	Prop Type Ref	Conversion and Extension
Property	150, Haverstock Hill, LONDON, NW3 2AY		

SAP Rating	84 B	DER	16.91	TER	21.58
Environmental	88 B	% DER<TER	21.62		
CO₂ Emissions (t/year)	0.93	DFEE	42.87	TFEE	62.93
General Requirements Compliance	Pass	% DFEE<TFEE	31.88		

Assessor Details	Mrs. Anna Jardine, Red House, Tel: 01933 358617, anna@redhouseplans.co.uk	Assessor ID	K472-0001
Client	Procon Developments		

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	Mains gas		
Fuel factor	1.00 (mains gas)		
Target Carbon Dioxide Emission Rate (TER)	21.58	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	16.91	kgCO ₂ /m ²	Pass
	-4.67 (-21.6%)	kgCO ₂ /m ²	

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	62.93	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DFEE)	42.87	kWh/m ² /yr	
	-20.0 (-31.8%)	kWh/m ² /yr	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.15 (max. 0.30)	0.15 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.12 (max. 0.25)	0.12 (max. 0.70)	Pass
Roof	0.10 (max. 0.20)	0.10 (max. 0.35)	Pass
Openings	1.03 (max. 2.00)	1.20 (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	2.60 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

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Main heating system	Boiler system with radiators or underfloor - Mains gas Data from database Ideal LOGIC CODE COMBI ESP1 38 Combi boiler Efficiency: 89.6% SEDBUK2009 Minimum: 88.0%	Pass
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Secondary heating system	None	
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5 Cylinder insulation

Hot water storage	No cylinder	
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6 Controls

Space heating controls	Time and temperature zone control	Pass
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Hot water controls	No cylinder	
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Boiler interlock	Yes	Pass
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7 Low energy lights

Percentage of fixed lights with low-energy fittings	100	%	
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Minimum	75	%	Pass
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8 Mechanical ventilation

Not applicable

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)	Medium	Pass
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Based on:

Overshading	Average
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Windows facing North East	3.20 m ² , No overhang
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Windows facing South West	4.50 m ² , No overhang
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Air change rate	4.00 ach
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Blinds/curtains	None
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Criterion 4 – Building performance consistent with DER and DFEE rate

Party Walls

Type	U-value	W/m ² K	
Solid Wall	0.00		Pass

Air permeability and pressure testing

3 Air permeability

Air permeability at 50 pascals	2.60 (design value)
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Maximum	10.0	Pass
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10 Key features

Party wall U-value	0.00	W/m ² K
Roof U-value	0.10	W/m ² K
Roof U-value	0.10	W/m ² K
Floor U-value	0.12	W/m ² K
Window U-value	1.00	W/m ² K
Roof window U-value	1.00	W/m ² K
Thermal bridging ψ -value	0.002	W/m ² K
Air permeability	2.6	m ³ /m ² h

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