

BASIC COMPLIANCE REPORT

Calculation Type: New Build (As Designed)



Property Reference	CYPRUS ROAD 1	Issued on Date	29/01/2020
Assessment Reference	As-Designed	Prop Type Ref	
Property	Flat 1 - , 1, Cyprus Road, Burgess Hill, West Sussex, RH15 8DX		
SAP Rating	82 B	DER	20.78
Environmental	84 B	TER	21.64
CO ₂ Emissions (t/year)	1.32	% DER<TER	3.97
General Requirements Compliance	Pass	DfEE	57.39
		TfEE	66.86
		% DfEE<TfEE	14.16
Assessor Details	Mr. Alexander Pelling, Alexander Pelling, Tel: 01732808238, alex@arcarch.co.uk		Assessor ID
			T297-0001
Client	Martin Landivar, Landivar Architects		

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)	21.64	kgCO ₂ /m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	20.78	kgCO ₂ /m ²	Pass
	-0.86 (-4.0%)	kgCO ₂ /m ²	

1b TfEE and DfEE

Target Fabric Energy Efficiency (TfEE)	66.86	kWh/m ² /yr	
Dwelling Fabric Energy Efficiency (DfEE)	57.39	kWh/m ² /yr	
	-9.5 (-14.2%)	kWh/m ² /yr	Pass

Criterion 2 – Limits on design flexibility

Limiting Fabric Standards

2 Fabric U-values

Element	Average	Highest	
External wall	0.19 (max. 0.30)	0.21 (max. 0.70)	Pass
Party wall	0.00 (max. 0.20)	-	Pass
Floor	0.14 (max. 0.25)	0.14 (max. 0.70)	Pass
Openings	1.20 (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	5.00 (design value)	
Maximum	10.0	Pass

Limiting System Efficiencies

4 Heating efficiency

Main heating system	Boiler system with radiators or underfloor - Mains gas Data from manufacturer TBC Gas Condensing Combi boiler Efficiency: 89% Minimum: 88%	Pass
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Secondary heating system

None

5 Cylinder insulation

Hot water storage

No cylinder

6 Controls

Space heating controls

Time and temperature zone control

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

Not applicable

Criterion 3 – Limiting the effects of heat gains in summer

9 Summertime temperature

Overheating risk (Thames Valley)

Slight

Pass

Based on:

Overshading

Average

Windows facing North

5.18 m², No overhang

Windows facing East

10.93 m², No overhang

Windows facing South

1.78 m², No overhang

Air change rate

4.00 ach

Blinds/curtains

Light-coloured curtain or roller blind, closed 100% of daylight hours

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

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

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