

Regulations Compliance Report

Approved Document L1A 2010 edition assessed by Stroma FSAP 2009 program, Version: 1.5.0.95

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Project Information:

Assessed By: James Mcglashan (STRO000976) **Building Type:** Flat

Dwelling Details:

NEW DWELLING AS BUILT

Site Reference : Bayham - with PV **Plot Reference:** 22 ASHP

Address : Flat 22, Anello Building, 116 Bayham Street, LONDON, NW1 0BA

Client Details:

Name:

Address :

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1 TER and DER

Fuel for main heating system: Electricity

Fuel factor: 1.47 (electricity)

Target Carbon Dioxide Emission Rate (TER) 24.92 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 19.74 kg/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.29 (max. 0.30)	0.29 (max. 0.70)	OK
Party wall	0.20 (max. 0.20)	-	OK
Floor	(no floor)		
Roof	0.14 (max. 0.20)	0.14 (max. 0.35)	OK
Openings	1.60 (max. 2.00)	1.60 (max. 3.30)	OK

3 Air permeability

Air permeability at 50 pascals	9.83	
Maximum	10.0	OK

4 Heating efficiency

Main Heating system: Heat pumps with radiators or underfloor - electric
Air-to-water heat pump (electric)

Secondary heating system: None

5 Cylinder insulation

Hot water Storage:	Nominal cylinder loss: 1.67 kWh/day Permitted by DBSCG: 2.56 kWh/day	
Primary pipework insulated:	Yes	OK

6 Controls

Space heating controls	Time and temperature zone control	OK
Hot water controls:	Cylinderstat	OK
	Independent timer for DHW	OK

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100.0%	
Minimum	75.0%	OK

8 Mechanical ventilation

Continuous supply and extract system

Specific fan power:	1.02	
Maximum	1.5	OK
MVHR efficiency:	86%	
Minimum	70%	OK

9 Summertime temperature

Overheating risk (Thames valley):	Medium	OK
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Based on:

Overshading:	Average or unknown
Windows facing: North East	30.97m ² ,
Windows facing: North East	18.5m ² ,
Windows facing: North West	2.23m ² ,
Windows facing: South West	63.46m ² ,
Windows facing: South East	2.23m ² ,
Roof windows facing: Horizontal	4.32m ²
Ventilation rate:	6.00
Blinds/curtains:	Light-coloured curtain or roller blind shutter closed 50% of daylight hours

10 Key features

Photovoltaic array
Fixed cooling system