

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.5.60
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Project Information:

Assessed By: Ondrej Gajdos (STRO006629)

Building Type: Maisonette

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 84.5m²

Site Reference : 43LS

Plot Reference: FLAT 22

Address : FLAT 22, 43 London Street, Reading, RG1 4PS

Client Details:

Name:

Address :

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1a TER and DER

Fuel for main heating system: Electricity

Fuel factor: 1.55 (electricity)

Target Carbon Dioxide Emission Rate (TER) 33.24 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 19.70 kg/m² **OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 76.9 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 55.4 kWh/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.12 (max. 0.30)	0.14 (max. 0.70)	OK
Floor	0.17 (max. 0.25)	0.17 (max. 0.70)	OK
Roof	0.11 (max. 0.20)	0.11 (max. 0.35)	OK
Openings	1.06 (max. 2.00)	1.10 (max. 3.30)	OK

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 **OK**

4 Heating efficiency

Main Heating system:

Heat pumps with warm air distribution - electric
Nilan Compact P

Secondary heating system:

Room heaters - electric
Panel, convector or radiant heaters

5 Cylinder insulation

Hot water Storage: No Separate Cylinder

N/A

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6 Controls

Space heating controls	Programmer and room thermostat	OK
Hot water controls:	No cylinder thermostat	
	No cylinder	

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:	0.88	
Maximum	1.5	OK
MVHR efficiency:	86%	
Minimum	70%	OK

9 Summertime temperature

Overheating risk (Thames valley):	Slight	OK
Based on:		
Overshading:	Very Little	
Windows facing: South	1.42m ²	
Windows facing: South	1.56m ²	
Windows facing: West	2.86m ²	
Windows facing: South	1.46m ²	
Windows facing: South East	5.84m ²	
Windows facing: East	8.76m ²	
Windows facing: North East	5.84m ²	
Windows facing: North	1.46m ²	
Windows facing: South	1.56m ²	
Windows facing: South East	3.12m ²	
Windows facing: East	4.68m ²	
Windows facing: North East	3.12m ²	
Windows facing: North	0.78m ²	
Ventilation rate:	8.00	
Blinds/curtains:	Light-coloured curtain or roller blind	
	Closed 100% of daylight hours	

10 Key features

Windows U-value	1.1 W/m ² K
Doors U-value	0.33 W/m ² K
Roofs U-value	0.11 W/m ² K
External Walls U-value	0.12 W/m ² K
Secondary heating (Electricity)	