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:** Flat

Dwelling Details:

NEW DWELLING DESIGN STAGE Total Floor Area: 76m²

Site Reference : 43LS **Plot Reference:** FLAT 18

Address : FLAT 18, 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)	30.28 kg/m²	
Dwelling Carbon Dioxide Emission Rate (DER)	14.46 kg/m²	**OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	64.0 kWh/m²	
Dwelling Fabric Energy Efficiency (DFEE)	51.1 kWh/m²	
		OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.22 (max. 0.70)	**OK**
Party wall	0.00 (max. 0.20)	-	**OK**
Floor	0.13 (max. 0.25)	0.13 (max. 0.70)	**OK**
Roof	0.12 (max. 0.20)	0.12 (max. 0.35)	**OK**
Openings	0.95 (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:	0.76	
Maximum	1.5	OK
MVHR efficiency:	86%	
Minimum	70%	OK

9 Summertime temperature

Overheating risk (Thames valley):	Medium	OK

Based on:

Overshading:	Average or unknown
Windows facing: East	6.67m²
Windows facing: East	7.82m²
Windows facing: North	5.98m²
Windows facing: North	2.1m²
Windows facing: South	2.1m²
Windows facing: North	5.62m²
Windows facing: West	2.1m²
Ventilation rate:	3.00
Blinds/curtains:	Light-coloured curtain or roller blind
	Closed 100% of daylight hours

10 Key features

Windows U-value	0.92 W/m²K
Doors U-value	0.33 W/m²K
Roofs U-value	0.12 W/m²K
Party Walls U-value	0 W/m²K
Secondary heating (Electricity)	