

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.5.58
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Project Information:

Assessed By: Antony Straszewski (STRO006494)

Building Type: Detached House

Dwelling Details:

NEW DWELLING AS BUILT

Total Floor Area: 218.73m²

Site Reference : 179 Kidmore Road

Plot Reference: 179 Kidmore Road

Address : 179 Kidmore Road, Caversham, READING, RG4 7NW

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) 21.03 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 3.96 kg/m² **OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 54.3 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 49.2 kWh/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.18 (max. 0.30)	0.18 (max. 0.70)	OK
Floor	0.09 (max. 0.25)	0.12 (max. 0.70)	OK
Roof	0.15 (max. 0.20)	0.18 (max. 0.35)	OK
Openings	1.36 (max. 2.00)	1.70 (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	4.78	
Maximum	10.0	OK

4 Heating efficiency

Main Heating system:

Heat pumps with radiators or underfloor heating - electric
 Grant AERONA3

Secondary heating system: None

5 Cylinder insulation

Hot water Storage:	Measured cylinder loss: 2.32 kWh/day	
	Permitted by DBSCG: 2.86 kWh/day	OK
Primary pipework insulated:	Yes	OK

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6 Controls

Space heating controls	TTZC by plumbing and electrical services	OK
Hot water controls:	Cylinderstat	OK
	Independent timer for DHW	OK
Boiler interlock:	Yes	OK

7 Low energy lights

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

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (Thames valley):	Not significant	OK
Based on:		
Overshading:	Average or unknown	
Windows facing: East	0.74m ²	
Windows facing: East	1.68m ²	
Windows facing: East	3.12m ²	
Windows facing: West	5.18m ²	
Windows facing: West	8.84m ²	
Windows facing: West	0.77m ²	
Windows facing: North	0.49m ²	
Windows facing: East	2.92m ²	
Windows facing: East	1.04m ²	
Windows facing: East	1.05m ²	
Windows facing: West	2.94m ²	
Windows facing: West	2.12m ²	
Windows facing: North	0.68m ²	
Roof windows facing: South	2.29m ²	
Ventilation rate:	4.00	
Blinds/curtains:	Light-coloured curtain or roller blind Closed 100% of daylight hours	

10 Key features

Doors U-value	0.65 W/m ² K
External Walls U-value	0.13 W/m ² K
Floors U-value	0.09 W/m ² K
Floors U-value	0.12 W/m ² K
Photovoltaic array	