

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.3.13
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Project Information:

Assessed By: Michael Brogden (STRO000212)

Building Type: Detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 579.99m²

Site Reference : 115 Frognal

Plot Reference: 115 Frognal (PV proposed)

Address : 115 Frognal (proposed)

Client Details:

Name: Will Potter Paartnership

Address : 60 Arley Hill, Bristol, BS6 5PP

**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: Mains gas

Fuel factor: 1.00 (mains gas)

Target Carbon Dioxide Emission Rate (TER) 13.94 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 10.65 kg/m² **OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 62.6 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 56.1 kWh/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.19 (max. 0.30)	0.20 (max. 0.70)	OK
Floor	0.17 (max. 0.25)	0.29 (max. 0.70)	OK
Roof	0.14 (max. 0.20)	0.14 (max. 0.35)	OK
Openings	1.41 (max. 2.00)	1.60 (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: Boiler systems with radiators or underfloor heating - mains gas
Data from manufacturer
Efficiency 89.0 % SEDBUK2009
Minimum 88.0 % **OK**

Secondary heating system: None

5 Cylinder insulation

Hot water Storage: Measured cylinder loss: 2.14 kWh/day
Permitted by DBSCG: 3.92 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):	Slight	OK
Based on:		
Overshading:	Average or unknown	
Windows facing: North	25m ²	
Windows facing: South	43.77m ²	
Windows facing: South West	26.61m ²	
Windows facing: West	10.03m ²	
Windows facing: South East	29.76m ²	
Roof windows facing: Horizontal	2.67m ²	
Ventilation rate:	4.00	
Blinds/curtains:	Closed 100% of daylight hours	

10 Key features

Thermal bridging	0.037 W/m ² K
Photovoltaic array	