

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.5.8
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Project Information:

Assessed By: () **Building Type:** Detached Bungalow

Dwelling Details:

NEW DWELLING CREATED BY CHANGE OF USE

Total Floor Area: 214.21m²

Site Reference :

Plot Reference: Barn Conversion

Address :

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: Mains gas

Fuel factor: 1.00 (mains gas)

Target Carbon Dioxide Emission Rate (TER)

18.57 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER)

26.12 kg/m²

Fail

Excess emissions = 7.55 kg/m² (40.7 %)

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)

78.1 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE)

106.1 kWh/m²

Fail

Excess energy = 28.01 kWh/m² (35.9 %)

2 Fabric U-values

Element	Average	Highest	
External wall	0.27 (max. 0.30)	0.28 (max. 0.70)	OK
Floor	0.13 (max. 0.25)	0.14 (max. 0.70)	OK
Roof	0.19 (max. 0.20)	0.19 (max. 0.35)	OK
Openings	1.40 (max. 2.00)	1.40 (max. 3.30)	OK

2a Thermal bridging

Thermal bridging calculated using user-specified y-value of 0.15

3 Air permeability

Air permeability at 50 pascals 15.00 **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: Room heaters - wood
Data from manufacturer -
Closed room heater
Efficiency 85.0 %
Minimum 65.0 % **OK**

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5 Cylinder insulation

Hot water Storage:	Measured cylinder loss: 2.10 kWh/day Permitted by DBSCG: 2.56 kWh/day	OK
Primary pipework insulated:	Yes	OK

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 (Midlands):	Not significant	OK
Based on:		
Overshading:	Average or unknown	
Windows facing: South East	6.99m ²	
Windows facing: South East	0.66m ²	
Windows facing: South East	2.06m ²	
Windows facing: South East	3.99m ²	
Windows facing: North West	2.43m ²	
Windows facing: North West	6.43m ²	
Windows facing: North West	8.55m ²	
Windows facing: North West	12.81m ²	
Windows facing: North West	2.93m ²	
Windows facing: South West	4.11m ²	
Windows facing: South West	2.84m ²	
Windows facing: South West	1.34m ²	
Windows facing: South West	2.84m ²	
Windows facing: North East	3.41m ²	
Windows facing: North East	1.37m ²	
Ventilation rate:	3.00	

10 Key features

Secondary heating (wood logs)
Secondary heating fuel wood logs