

Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.4.18
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Project Information:

Assessed By: Nicholas Jones (STRO000971)

Building Type: Semi-detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 83.44m²

Site Reference : Cinders Lane

Plot Reference: Plot 49

Address : Plot 49, Cinders Road, Yapton, BN18 0JJ

Client Details:

Name: Crayfern Homes

Address : Victoria House, 14 St Johnes Road, Hedge End, SO30 4AB

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) 18.21 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 13.83 kg/m² OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 53.6 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 51.4 kWh/m² OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.25 (max. 0.30)	0.25 (max. 0.70)	OK
Party wall	0.00 (max. 0.20)	-	OK
Floor	0.21 (max. 0.25)	0.21 (max. 0.70)	OK
Roof	0.11 (max. 0.20)	0.11 (max. 0.35)	OK
Openings	1.37 (max. 2.00)	1.40 (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	5.10 (design value)	
Maximum	10.0	OK

4 Heating efficiency

Main Heating system:

Heat pumps with radiators or underfloor heating - electric
Daikin Altherma EDLQ05CAV3

Secondary heating system: None

5 Cylinder insulation

Hot water Storage:	Measured cylinder loss: 1.32 kWh/day	
	Permitted by DBSCG: 2.24 kWh/day	OK

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Primary pipework insulated: Yes OK

6 Controls

Space heating controls: Programmer, TRVs and bypass 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 Summer time temperature

Overheating risk (South England): Medium OK

Based on:

Overshading: Average or unknown
 Windows facing: West 3.63m²
 Windows facing: East 7.21m²
 Windows facing: South 1.64m²
 Ventilation rate: 4.00

10 Key features

Roofs U-value 0.11 W/m²K
 Party Walls U-value 0 W/m²K