

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: Detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 122.54m²

Site Reference : Cinders Lane

Plot Reference: Plot 6

Address : Plot 6, 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) 16.36 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 12.53 kg/m² OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 54.8 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 50.7 kWh/m² OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.25 (max. 0.30)	0.25 (max. 0.70)	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	1.38 (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
Primary pipework insulated:	Yes	OK

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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: South	6.6m ²	
Windows facing: North	10.45m ²	
Windows facing: East	0.72m ²	
Windows facing: West	7.68m ²	
Ventilation rate:	4.00	

10 Key features

Roofs U-value	0.11 W/m ² K
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