

# 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: 93.72m<sup>2</sup>

**Site Reference :** Cinders Lane

**Plot Reference:** Plot 1

**Address :** Plot 1, 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)

17.97 kg/m<sup>2</sup>

Dwelling Carbon Dioxide Emission Rate (DER)

14.03 kg/m<sup>2</sup>

OK

## 1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)

55.7 kWh/m<sup>2</sup>

Dwelling Fabric Energy Efficiency (DFEE)

53.3 kWh/m<sup>2</sup>

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             | 5.44m <sup>2</sup> |    |
| Windows facing: North             | 8.45m <sup>2</sup> |    |
| Windows facing: West              | 2.38m <sup>2</sup> |    |
| Ventilation rate:                 | 4.00               |    |

## 10 Key features

|               |                         |
|---------------|-------------------------|
| Roofs U-value | 0.11 W/m <sup>2</sup> K |
|---------------|-------------------------|