

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

**Site Reference :** Cinders Lane

**Plot Reference:** Plot 11

**Address :** Plot 11, 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) 16.93 kg/m<sup>2</sup>

Dwelling Carbon Dioxide Emission Rate (DER) 13.02 kg/m<sup>2</sup> OK

## 1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 49.7 kWh/m<sup>2</sup>

Dwelling Fabric Energy Efficiency (DFEE) 47.6 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 |
| 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): Slight OK

Based on:

Overshading: Average or unknown  
 Windows facing: South 5.44m<sup>2</sup>  
 Windows facing: North 8.45m<sup>2</sup>  
 Ventilation rate: 4.00

## 10 Key features

Roofs U-value 0.11 W/m<sup>2</sup>K  
 Party Walls U-value 0 W/m<sup>2</sup>K