

Regulations Compliance Report

Approved Document L1A 2010 edition assessed by Stroma FSAP 2009 program, Version: 1.4.0.84

Printed on Monday, July 09, 2012 at 5:13:10 PM

Project Information:

Assessed By: Laura Meehan (STRO007832)

Building Type: Detached House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Site Reference : Warren Close

Plot Reference: Warren Close

Address : 5, Warren Close, HAYLING ISLAND, PO11 0HP

Client Details:

Name: Tim Lines

Address : Kingswood, Stamford Avenue, Hayling Island, Hampshire, PO11 0BJ

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1 TER and DER

Fuel for main heating system: Natural gas

Target Carbon Dioxide Emission Rate (TER) 15.68 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 9.95 kg/m² **OK**

2 Fabric U-values

Element	Average	Highest	
External wall	0.10 (max. 0.30)	0.10 (max. 0.70)	OK
Floor	0.11 (max. 0.25)	0.11 (max. 0.70)	OK
Roof	0.10 (max. 0.20)	0.10 (max. 0.35)	OK
Openings	0.79 (max. 2.00)	0.79 (max. 3.30)	OK

3 Design air permeability

Design air permeability at 50 pascals	3.00	
Maximum	10.0	OK

4 Heating efficiency

Main Heating system:	Database: (rev 325, product index 009715): Boiler system with radiators or underfloor - mains gas Brand name: Worcester Model: Greenstar R Model qualifier: 35 HE Plus Combi (Combi boiler) Efficiency 89.5 % SEDBUK2009 Minimum 88.0 %	OK
Secondary heating system:	None	

5 Cylinder insulation

Hot water Storage:	No cylinder
--------------------	-------------

6 Controls

Space heating controls	Time and temperature zone control	OK
Hot water controls:	No cylinder	
Boiler interlock:	Yes	OK

7 Low energy lights

Percentage of fixed lights with low-energy fittings	100.0%	
Minimum	75.0%	OK

Regulations Compliance Report

8 Mechanical ventilation

Continuous extract system

Specific fan power: 0.65

Maximum 0.7 **OK**

9 Summertime temperature

Overheating risk (South West England): Slight **OK**

Based on:

Overshading:	Average or unknown
Windows facing: South	24.52m ² , Overhang twice as wide as window, ratio NaN
Windows facing: East	2.22m ² , Overhang twice as wide as window, ratio NaN
Windows facing: West	22.13m ² , Overhang twice as wide as window, ratio NaN
Windows facing: South	29.84m ² , Overhang twice as wide as window, ratio NaN
Roof windows facing: Horizontal	9m ²
Ventilation rate:	4.00
Blinds/curtains:	Dark-coloured venetian blind shutter closed 100% of daylight hours

10 Key features

Design air permeability	3.0 m ³ /m ² h
Roof window U-value	0.79 W/m ² K
Windows U-value	0.79 W/m ² K
Roofs U-value	0.1 W/m ² K
External Walls U-value	0.1 W/m ² K
Floors U-value	0.11 W/m ² K

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan

RE: 5 Warren Close – Ene 3 – Energy Display Device

Further to your appointment as Code for Sustainable Homes Assessor on the above project we can confirm the following regarding Code for Sustainable Homes compliance in respect of ENE 3 Energy Display Device -

We can confirm that the;

- System will comprise a self-charging sensor(s) fixed to the incoming mains supply/supplies, to measure and transmit energy consumption data to a visual display unit.
- As a minimum the visual display unit will be capable of displaying the following information:
 - o Current mains energy consumption (kilowatts and kilowatt hours)
 - o Local time
 - o Current emissions (g/kg CO2)
 - o Current tariff Current cost (in pounds and pence). For pre-payment customers this should be 'real time' data and for 'credit' paying customers cost should be displayed on a monthly basis
 - o Display accurate account balance information (amount in credit or debit)
 - o Visual presentation of data (i.e. non-numeric) to allow consumers to easily identify high and low level of usage
 - o Historical consumption data so that comparisons can be made between current and previous usage in a meaningful way. This will include cumulative consumption data in any of the following forms day/week/month/billing period'.

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan,

RE: 5 Warren Close - Ene 5 - Energy Labelled White Goods

Further to your appointment as Code for Sustainable Homes Assessor on the above project we can confirm the following regarding Code for Sustainable Homes compliance in respect of ENE 5 Energy labelled white goods-

- We can confirm that a Standard Homes pack will be provided to all new dwellings which will include the EU Energy Efficiency Labelling Scheme.
- A copy of the EU Energy Efficiency Labelling Scheme leaflet has been sent to yourselves demonstrating the information that will be provided in the leaflet.
- All fridges and fridge freezers provided will have an A+ rating under the EU Energy Efficiency scheme.
- All washing machines and dishwashers provided will have an A rating under the EU energy efficiency scheme.
- All washer dryers and tumble dryers will have a B rating under the EU energy efficiency scheme.

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan,

RE: 5 Warren Close - Ene 6 - External Lighting

Further to your appointment as Code Assessor on the above project we can confirm the following regarding Code compliance in respect of ENE 6 External Lighting -

All external space lighting will be specifically designed to accommodate only energy efficient fittings. All security lighting is designed for energy efficiency and is adequately controlled such that:

- Burglar security lights have maximum wattage of 150w and incorporate PIR sensors with daylight cut off sensors.
- General security lights designed to only accommodate energy efficient fittings and are fitted with daylight cut off sensors or timers

In addition all space lighting will be only capable of accepting lamps having a luminous efficacy greater than 40 lumens per circuit Watt

External lighting specification will be provided indicating the specification as written in this letter. External lighting drawings will be provided with this letter

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan,

RE: 5 Warren Close - Ene 8 - Cycle Storage

Further to your appointment as Code for Sustainable Homes Assessor on the above project we can confirm the following regarding CFSH compliance in respect of ENE 8 - Cycle Storage:

- Cycle storage will be provided that is adequately sized, safe, secure, convenient and weather proof.
- The cycle storage for the dwelling will be contained within the garage located in the garage to the side; these will have enough room for storing the cycle storage and a car.
- The 4 bedroom house on this site will be provided with storage space for 4 cycles.

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan,

RE: 5 Warren Close - Ene 9 - Home Office

- We can confirm that sufficient space and subsequent services (two telephone points, two double sockets, adequate ventilation & broadband connection) are to be provided in each dwelling where the occupants are able to set up a home office in a suitable quiet room with a daylight factor of at least 1.5%.
- The dedicated room will also have sufficient wall space (greater than 1.8m) to allow a desk, chair and filing cabinet to be placed in the room and to allow space for the occupants to move around the desk and access the filing cabinet.

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager

Laura Meehan
Build Energy Ltd
Unit 6 Silver Business Park
Airfield Way
Christchurch
Dorset
BH23 3TA

Dear Ms Meehan,

RE: 5 Warren Close - Wat 2 - External Water Usage

WAT 1 - Indoor Water Use -

The maximum potable water consumption per person per day will not exceed 105 litres based on code level 3 compliance.

It is anticipated that the sanitary ware will have the following flow rates/capacities:

Toilets -

Wash hand basins - flow rates of x litres per minute to all taps on wash hand basins

Kitchen sinks - flow rates of x litres per minute to all taps on kitchen sinks

Baths/ hydrotherapy pool - Capacity of xxx litres

Showers - flow rates of x litres per minute will be used

Dishwashers - litres per place setting of x

Washing Machines - litres per kg of dry load of x

The system installer will also be required to have checked all of the hot and cold water system in order to eliminate the possibility of Legionnaire's disease.

I trust this is enough information in order for the credit to be awarded but should you require further information please do not hesitate to contact the undersigned.

Yours sincerely

Mr Tim Lines
Project Manager