

# Regulations Compliance Report

Approved Document L1A 2010 edition assessed by Stroma FSAP 2009 program, Version: 1.5.0.63

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## Project Information:

**Assessed By:** Jonathan Ponting (STRO000148) **Building Type:** Detached House

## Dwelling Details:

### NEW DWELLING DESIGN STAGE

**Site Reference :** PB FR NW2 -194a Fordwych Road **Plot Reference:** 194a Fordwych Road

**Address :** 194a Fordwych Road , London , NW2 3NX

## Client Details:

**Name:** Peter Brades Architects

**Address :** 42 Colebrook Row , Islington , London , N1 8AF

**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

Fuel factor: 1.00 (natural gas)

Target Carbon Dioxide Emission Rate (TER) 22.24 kg/m<sup>2</sup>

Dwelling Carbon Dioxide Emission Rate (DER) 15.21 kg/m<sup>2</sup> **OK**

## 2 Fabric U-values

Element	Average	Highest	
External wall	0.18 (max. 0.30)	0.18 (max. 0.70)	<b>OK</b>
Floor	0.13 (max. 0.25)	0.13 (max. 0.70)	<b>OK</b>
Roof	0.13 (max. 0.20)	0.13 (max. 0.35)	<b>OK</b>
Openings	1.37 (max. 2.00)	1.40 (max. 3.30)	<b>OK</b>

## 3 Air permeability

Air permeability at 50 pascals	5.00	
Maximum	10.0	<b>OK</b>

## 4 Heating efficiency

Main Heating system:	Database: (rev 352, product index 017179): Boiler system with radiators or underfloor - mains gas Brand name: Ideal Model: Logic Code Combi ES33 Model qualifier: (Combi boiler) Efficiency 89.0 % SEDBUK2009 Minimum 88.0 %	<b>OK</b>
Secondary heating system:	None	

## 5 Cylinder insulation

Hot water Storage:	Nominal cylinder loss: 1.19 kWh/day Permitted by DBSCG: 2.10 kWh/day	
Primary pipework insulated:	Yes	<b>OK</b>
Solar water heating		

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Dedicated solar storage volume: 110 litres

Minimum: 76 litres

OK

## 6 Controls

Space heating controls

Time and temperature zone control

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 Summertime temperature

Overheating risk (Thames valley):

Medium

OK

Based on:

Overshading:

Average or unknown

Windows facing: North West

3.74m<sup>2</sup>,

Windows facing: North West

1.01m<sup>2</sup>,

Windows facing: North West

0.94m<sup>2</sup>,

Windows facing: North West

0.39m<sup>2</sup>,

Windows facing: South East

7.25m<sup>2</sup>,

Windows facing: South East

3.24m<sup>2</sup>,

Windows facing: South East

1.53m<sup>2</sup>,

Windows facing: South East

0.77m<sup>2</sup>,

Windows facing: North West

2.64m<sup>2</sup>,

Ventilation rate:

4.00

Blinds/curtains:

shutter closed 100% of daylight hours

## 10 Key features

Thermal bridging

0.02

Windows U-value

1.4 W/m<sup>2</sup>K

Doors U-value

1 W/m<sup>2</sup>K

External Walls U-value

0.18 W/m<sup>2</sup>K

Floors U-value

0.13 W/m<sup>2</sup>K

Solar water heating