# Regulations Compliance Report

Approved Document L1A, 2013 Edition, England assessed by Stroma FSAP 2012 program, Version: 1.0.3.0
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## Project Information:

**Assessed By:** Jonathan Ponting (STRO000148) **Building Type:** Semi-detached House

## Dwelling Details:

**NEW DWELLING DESIGN STAGE** Total Floor Area: 117.9m²

**Site Reference :** TWCPRG1 **Plot Reference:** 32 - F Sem

**Address :** Plot 32, Coley Park, Reading, RG1

## Client Details:

**Name:** Taylor Wimpey (West London)

**Address :**

**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: Mains gas
Fuel factor: 1.00 (mains gas)

| | | |
|---|---|---|
| Target Carbon Dioxide Emission Rate (TER) | 15.6 kg/m² | |
| Dwelling Carbon Dioxide Emission Rate (DER) | 12.46 kg/m² | **OK** |

## 1b TFEE and DFEE

| | | |
|---|---|---|
| Target Fabric Energy Efficiency (TFEE) | 49.5 kWh/m² | |
| Dwelling Fabric Energy Efficiency (DFEE) | 43.8 kWh/m² | |
| | | **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 | 0.17 (max. 0.25) | 0.17 (max. 0.70) | **OK** |
| Roof | 0.11 (max. 0.20) | 0.20 (max. 0.35) | **OK** |
| Openings | 1.40 (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 | 5.00 (design value) | |
| Maximum | 10.0 | **OK** |

## 4 Heating efficiency

Main Heating system: Database: (rev 387, product index 016409):
Boiler systems with radiators or underfloor heating - mains gas
Brand name: Ideal
Model: Logic + Heat
Model qualifier: 15
(Regular)
Efficiency 89.3 % SEDBUK2009
Minimum 88.0 % **OK**

Secondary heating system: None

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## 5 Cylinder insulation

| | | |
|---|---|---|
| Hot water Storage: | Measured cylinder loss: 1.23 kWh/day | |
| | Permitted by DBSCG: 1.89 kWh/day | |
| Primary pipework insulated: | Yes | OK |

## 6 Controls

| | | |
|---|---|---|
| Space heating controls | TTZC by plumbing and electrical services | 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

| | | |
|---|---|---|
| Continuous extract system (decentralised) | | |
| Specific fan power: | 0.16 0.16 | |
| Maximum | 0.7 | OK |

## 9 Summertime temperature

| | | |
|---|---|---|
| Overheating risk (Thames valley): | Not significant | OK |

Based on:

| | |
|---|---|
| Overshading: | Very Little |
| Windows facing: North | 2.48m² |
| Windows facing: South | 4.48m² |
| Windows facing: South | 6.02m² |
| Windows facing: North | 3.52m² |
| Windows facing: North | 2.21m² |
| Windows facing: East | 2.16m² |
| Windows facing: East | 0.54m² |
| Ventilation rate: | 8.00 |
| Blinds/curtains: | Dark-coloured curtain or roller blind |
| | Closed 100% of daylight hours |

## 10 Key features

| | |
|---|---|
| Roofs U-value | 0.11 W/m²K |
| Party Walls U-value | 0 W/m²K |
| Photovoltaic array | |