

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: 34 - F Sem

Address : Plot 34, 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) 15.85 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 15.61 kg/m²

OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 50.8 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 45.4 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 %

Secondary heating system: None

OK

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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
Hot water controls:	Cylinderstat Independent timer for DHW
Boiler interlock:	Yes

OK

OK

OK

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
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OK

Based on:

Overshading:	Very Little
Windows facing: North	2.48m ²
Windows facing: South	4.48m ²
Windows facing: South	6.02m ²
Windows facing: North	3.52m ²
Windows facing: North	2.21m ²
Windows facing: East	2.16m ²
Windows facing: East	0.54m ²
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/m ² K
Party Walls U-value	0 W/m ² K