

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: End-terrace House

Dwelling Details:

NEW DWELLING DESIGN STAGE

Total Floor Area: 102.8m²

Site Reference : TWCPRG1

Plot Reference: 31 - D4 End

Address : Plot 31, 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) 16.58 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 15.78 kg/m²

OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 49.2 kWh/m²

Dwelling Fabric Energy Efficiency (DFEE) 44.3 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	0.13 (max. 0.20)	0.22 (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 017862):
Boiler systems with radiators or underfloor heating - mains gas
Brand name: Ideal
Model: LOGIC COMBI ESP
Model qualifier: 30
(Combi)
Efficiency 89.0 % SEDBUK2009
Minimum 88.0 %

OK

Secondary heating system: None

Regulations Compliance Report

5 Cylinder insulation

Hot water Storage: No cylinder

6 Controls

Space heating controls: Programmer, room thermostat and TRVs **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**

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): Slight **OK**
Based on:
Overshading: Very Little
Windows facing: North 0.96m²
Windows facing: South 2.24m²
Windows facing: South 6.02m²
Windows facing: North 3.65m²
Windows facing: North 2.25m²
Windows facing: West 0.51m²
Windows facing: West 2.04m²
Roof windows facing: South 1.28m²
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