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: 85.2m²

Site Reference : TWCPRG1 **Plot Reference:** 55 - C Sem

Address : Plot 55, 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)	18.72 kg/m²	
Dwelling Carbon Dioxide Emission Rate (DER)	17.73 kg/m²	**OK**

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	55.3 kWh/m²	
Dwelling Fabric Energy Efficiency (DFEE)	48.6 kWh/m²	
		OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.24 (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)	0.11 (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

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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: South West	1.88m²
Windows facing: South West	1.14m²
Windows facing: South West	1.32m²
Windows facing: South	3.4m²
Windows facing: North East	1.74m²
Windows facing: North East	2.46m²
Windows facing: North	2.06m²
Windows facing: North	1.08m²
Ventilation rate:	8.00
Blinds/curtains:	Dark-coloured curtain or roller blind Closed 100% of daylight hours

10 Key features

Thermal bridging	0.037 W/m²K
Roofs U-value	0.11 W/m²K
Party Walls U-value	0 W/m²K