

# Regulations Compliance Report

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## Project Information:

**Assessed By:** Ondrej Gajdos (STRO006629)

**Building Type:** Detached House

## Dwelling Details:

### NEW DWELLING DESIGN STAGE

Total Floor Area: 149.5m<sup>2</sup>

**Site Reference :** 39aPT

**Plot Reference:** Proposed

**Address :** 39a, Priory Terrace, LONDON, NW6 4DG

## Client Details:

**Name:**

**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) 19.52 kg/m<sup>2</sup>

Dwelling Carbon Dioxide Emission Rate (DER) 19.07 kg/m<sup>2</sup>

OK

## 1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE) 75.8 kWh/m<sup>2</sup>

Dwelling Fabric Energy Efficiency (DFEE) 64.9 kWh/m<sup>2</sup>

OK

## 2 Fabric U-values

Element	Average	Highest	
External wall	0.16 (max. 0.30)	0.16 (max. 0.70)	OK
Floor	0.12 (max. 0.25)	0.12 (max. 0.70)	OK
Roof	0.13 (max. 0.20)	0.13 (max. 0.35)	OK
Openings	1.29 (max. 2.00)	1.30 (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 4.00 (design value)  
Maximum 10.0

OK

## 4 Heating efficiency

Main Heating system: Database: (rev 456, product index 017972):  
Boiler systems with radiators or underfloor heating - mains gas  
Brand name: Vaillant  
Model: ecoFIT pure 630  
Model qualifier: VU 306/6-3 (H-GB)  
(Regular)  
Efficiency 89.9 % SEDBUK2009  
Minimum 88.0 %

OK

Secondary heating system: None

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## 5 Cylinder insulation

Hot water Storage:	Measured cylinder loss: 1.69 kWh/day	
	Permitted by DBSCG: 2.86 kWh/day	OK
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

Not applicable

## 9 Summertime temperature

Overheating risk (Thames valley):	Slight	OK
Based on:		
Overshading:	Average or unknown	
Windows facing: North West	2.51m <sup>2</sup>	
Windows facing: South East	2.51m <sup>2</sup>	
Windows facing: North West	6m <sup>2</sup>	
Windows facing: North West	2.16m <sup>2</sup>	
Windows facing: North East	1.38m <sup>2</sup>	
Windows facing: North East	2.36m <sup>2</sup>	
Windows facing: East	1.85m <sup>2</sup>	
Windows facing: South	1.14m <sup>2</sup>	
Windows facing: East	1.98m <sup>2</sup>	
Windows facing: East	2.83m <sup>2</sup>	
Windows facing: North East	2.88m <sup>2</sup>	
Windows facing: North East	3.46m <sup>2</sup>	
Windows facing: North	5.63m <sup>2</sup>	
Windows facing: West	1.5m <sup>2</sup>	
Roof windows facing: Horizontal	2.4m <sup>2</sup>	
Roof windows facing: Horizontal	2.66m <sup>2</sup>	
Roof windows facing: Horizontal	0.81m <sup>2</sup>	
Ventilation rate:	4.00	

## 10 Key features

Doors U-value	1 W/m <sup>2</sup> K
Floors U-value	0.12 W/m <sup>2</sup> K
Floors U-value	0.12 W/m <sup>2</sup> K