

Building Regulation Compliance

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Property Reference: 0006-Kemplay-Road

Issued on Date: 02.Oct.2014

Survey Reference: Be Green

Prop Type Ref: TAG Architects

Property: Kemplay Road, London, NW3

SAP Rating: 90 B **CO2 Emissions (t/year):** 2.24 **DER:** 9.18 Pass **TER:** 13.28 **Percentage DER<TER:** 30.88 %
Environmental:90 B **General Requirements Compliance:** Pass **DFEE:**54.49 Pass **TFEE:**56.42 **Percentage DFEE<TFEE:** 3.42 %

CfSH Results **Version:** **ENE1 Credits:** N/A **ENE2 Credits:** N/A **ENE7 Credits:** N/A **CfSH Level:** N/A

Surveyor: Matthew Crowther, Tel: 01636 653055

Surveyor ID: 8440-0006

Address:

Client:

Software Version: Elmhurst Energy Systems SAP2012 Calculator (Design System) version 2.01r09

SAP version: SAP 2012, **Regs Region:** England (Part L1A 2013), **Calculation Type:** New Dwelling As Designed

SUMMARY FOR INPUT DATA FOR New Build (As Designed)

1a TER and DER

Fuel for main heating:	Mains gas	
Fuel factor:	1.00 (mains gas)	
Target Carbon Dioxide Emission Rate (TER)	13.28 kg/m ²	
Dwelling Carbon Dioxide Emission Rate (DER)	9.18 kg/m ²	OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	56.42 kWh/m ²	
Dwelling Fabric Energy Efficiency (DFEE)	54.49 kWh/m ²	OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.23 (max. 0.30)	0.25 (max. 0.70)	OK
Party wall	0.00 (max. 0.20)	-	OK
Floor	0.18 (max. 0.25)	0.20 (max. 0.70)	OK
Roof	0.15 (max. 0.20)	0.16 (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:	5.10 (design value)	
Maximum	10.0	OK

4 Heating efficiency

Main heating system:	Boiler system with radiators or underfloor - Mains gas Data from manufacturer tbc tbc Efficiency: 89.0% SEDBUK2009 Minimum: 88.0%	OK
Secondary heating system:	Room heaters - Wood Logs Open fire in grate Efficiency: 37% Minimum: 37%	OK

5 Cylinder insulation

Hot water storage	Nominal cylinder loss: 2.55 kWh/day Permitted by DBSCG 2.86	OK
Primary pipework insulated:	Yes	OK

6 Controls

Space heating controls:	Time and temperature zone control	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%

Minimum 75% OK

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (Thames Valley): Slight OK

Based On:

Overshading:	Average
Windows facing North:	20.34 m ² , No overhang
Windows facing East:	10.81 m ² , No overhang
Windows facing South:	54.24 m ² , No overhang
Windows facing West:	19.37 m ² , No overhang
Air change rate:	8.00 ach
Blinds/curtains:	None

10 Key features

External wall U-value	0.12 W/m ² K
Party wall U-value	0.00 W/m ² K
Roof U-value	0.12 W/m ² K
Secondary heating (wood logs)	
Secondary heating fuel:	wood logs
Photovoltaic array	
