Regulations Compliance Report

Approved Document L1A 2010 edition assessed by Stroma FSAP 2009 program, Version: 1.5.0.63

Printed on 24 March 2014 at 15:24:51

Project Information:

Assessed By: Gary Nicholls (STRO003305) Building Type: Flat

Dwelling Details:

NEW DWELLING DESIGN STAGE

Site Reference: 40-42 Parker Street Plot Reference: Flat 3 - new build

Address: Flat 3 - new build, 40-42 Parker Street, London, unknown

Client Details:

Name: Savills

Address: 33 Margaret Street, London, W1G 0JD

This report covers items included within the SAP calculations.

It is not a complete report of regulations compliance.

1 TER and DER

Fuel for main heating system: Electricity

Fuel factor: 1.47 (electricity)

Target Carbon Dioxide Emission Rate (TER) 33.09 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER)

22.41 kg/m²

OK

2 Fabric U-values

Element Average **Highest** 0.25 (max. 0.30) **OK** External wall 0.25 (max. 0.70) Floor (no floor) Roof 0.18 (max. 0.20) 0.18 (max. 0.35) OK 1.48 (max. 2.00) **Openings** 1.50 (max. 3.30) OK

3 Air permeability

Air permeability at 50 pascals 5.00
Maximum 10.0 **OK**

4 Heating efficiency

Main Heating system: Heat pumps with radiators or underfloor - electric

Air-to-water heat pump (electric)

Secondary heating system: None

5 Cylinder insulation

7 Low energy lights

Hot water Storage: Nominal cylinder loss: 1.30 kWh/day

Permitted by DBSCG: 1.58 kWh/day

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

Percentage of fixed lights with low-energy fittings 100.0%

Minimum 75.0% OK

OK

Regulations Compliance Report

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (Thames valley): Slight OK

Based on:

Overshading: Average or unknown

Windows facing: North West

12.2m², Overhang twice as wide as window, ratio NaN

Windows facing: South East

16.08m², Overhang twice as wide as window, ratio NaN

Roof windows facing: Horizontal 4.1m²
Ventilation rate: 9.00
Blinds/curtains: None

shutter closed 0% of daylight hours

10 Key features

Roof window U-value 1.3 W/m²K

SAP Input

Property Details: Flat 3 - new build

Address: Flat 3 - new build, 40-42 Parker Street, London, unknown

Located in: England Region: Thames valley

UPRN: na

Date of assessment: 24 March 2014 Date of certificate: 24 March 2014

Assessment type: New dwelling design stage

Transaction type:

Tenure type:

Related party disclosure:

Thermal Mass Parameter:

New dwelling

Unknown

No related party

Indicative Value Medium

Dwelling designed to use less than 125 litres per Person per day: True

Property description:

Dwelling type: Flat

Detachment:

Year Completed: 2014

Floor Location: Floor area: Storey height:

Floor 0 46 m^2 2.6 m Floor 1 37 m^2 2.8 m

Living area: 37 m² (fraction 0.446)

Front of dwelling faces: North West

Opening types:

Name:	Source:	Type:	Glazing:	Argon:	Frame:
front door	Manufacturer	Solid			Metal
windows front	Manufacturer	Windows	double-glazed	Yes	Metal
windows rear	Manufacturer	Windows	double-glazed	Yes	Metal
rooflight	Manufacturer	Roof Windows	double-glazed	Yes	PVC-U

Name:	Gap:	Frame Fac	tor: g-value:	U-value:	Area:	No. of Openings:
front door	mm	0.8	0	1.5	1.89	1
windows front	16mm or more	0.8	0.76	1.5	12.2	1
windows rear	16mm or more	0.8	0.76	1.5	16.08	1
rooflight	16mm or more	0.8	0.8	1.3	4.1	1

Name:	Type-Name:	Location:	Orient:	Width:	Height:
front door		wall to common area	South West	0	0
windows front		external wall	North West	0	0
windows rear		external wall	South East	0	0
rooflight		green roof	Horizontal	0	0

Overshading: Average or unknown

Opaque Elements:

Type:	Gross area:	Openings:	Net area:	U-value:	Ru value:	Curtain wall:	Карра:
External Elements							
external wall	93.37	28.28	65.09	0.25	0	False	N/A
wall to common are	a 32.05	1.89	30.16	0.3	0.82	False	N/A
green roof	51.41	4.1	47.31	0.18	0		N/A
Internal Flomente							

Internal Elements
Party Elements

Thermal bridges:

SAP Input

User-defined (individual PSI-values) Y-Value = 0.0472 Thermal bridges:

	Length	PSI-value		
Approved source	22	0.214	Other lintels (including other steel lintels)	
Approved source	35	0.02	Jamb	
Approved source	38.8	0	Intermediate floor between dwellings	
Approved source	31.8	0.04	Flat roof	
Approved source	16.2	0.042	Corner (normal)	
Approved source	5.4	-0.09	Corner (inverted)	
Approved source	15.6	0.076	Party wall between dwellings	
Approved source	10.5	0	Intermediate floor between dwellings (in blocks of flats)	
Approved source	2.4	0.12	Roof (insulation at ceiling level)	

Yes (As designed) Pressure test:

Natural ventilation (extract fans) Ventilation:

Number of chimneys: 0 Number of open flues: 3 Number of fans: 2 Number of sides sheltered: 5 Pressure test:

Central heating systems with radiators or underfloor heating Main heating system:

> Heat pumps Fuel: Electricity

Info Source: SAP Tables

SAP Table: 204

Air-to-water heat pump (electric)

Systems with radiators Pump in heat space: Yes

Main heating Control: Time and temperature zone control

> Control code: 2207 Boiler interlock: Yes

Secondary heating system: None

Water heating: From main heating system

> Water code: 901 Fuel: Electricity Hot water cylinder

Cylinder volume: 110 litres Cylinder insulation: Factory 80 mm Primary pipework insulation: True

Cylinderstat: True

Cylinder in heated space: True

Solar panel: False

Electricity tariff: standard tariff In Smoke Control Area: Unknown

No conservatory Conservatory:

Low energy lights: 100% Dense urban Terrain type: **English** EPC language: No Wind turbine: Photovoltaics: None

SAP Input

Assess Zero Carbon Ho	ma: No	
422622 Telo Calbon do	me: No	

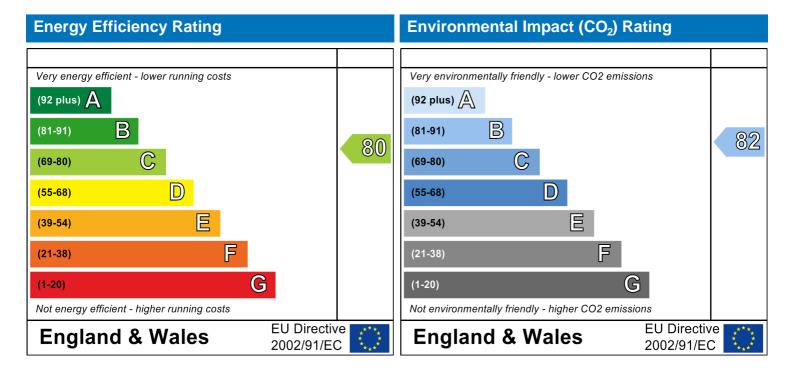
Predicted Energy Assessment



Flat 3 - new build 40-42 Parker Street London unknown Dwelling type: Top floor Flat
Date of assessment: 24 March 2014
Produced by: Gary Nicholls
Total floor area: 83 m²

This is a Predicted Energy Assessment for a property which is not yet complete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, an Energy Performance Certificate is required providing information about the energy performance of the completed property.

Energy performance has been assessed using the SAP 2009 methodology and is rated in terms of the energy use per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon dioxide (CO2) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be.

The environmental impact rating is a measure of a home's impact on the environment in terms of carbonn dioxide (CO2) emissions. The higher the rating the less impact it has on the environment.