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 15:25:00

Proiect Information:

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

Dwelling Details:

NEW DWELLING DESIGN STAGE

Site Reference: 40-42 Parker Street Plot Reference: Flat 2 - new build

Address: Flat 2 - 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) 30.13 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER)

21.36 kg/m²

OK

2 Fabric U-values

Element	Average	Highest	
External wall	0.24 (max. 0.30)	0.25 (max. 0.70)	OK
Party wall	0.00 (max. 0.20)	-	OK
Floor	(no floor)		
Roof	0.18 (max. 0.20)	0.18 (max. 0.35)	OK
Openings	1.48 (max. 2.00)	1.50 (max. 3.30)	OK
normoability			

3 Air permeability

Air permeability at 50 pascals 4.00
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): Medium OK

Based on:

Overshading: Average or unknown

Windows facing: North West

25.31m², Overhang twice as wide as window, ratio NaN

Windows facing: South East

15.4m², Overhang twice as wide as window, ratio NaN

Roof windows facing: Horizontal 4.2m²
Ventilation rate: 8.00
Blinds/curtains: None

shutter closed 0% of daylight hours

10 Key features

Air permeablility 4.0 m³/m²h Roof window U-value 1.3 W/m²K

SAP Input

Property Details: Flat 2 - new build

Address: Flat 2 - 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 42 m^2 2.8 m

Living area: 37 m² (fraction 0.42)

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 Fa	actor: 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	0.8	1.5	25.31	1
windows rear	16mm or more	0.8	0.8	1.5	15.4	1
rooflight	16mm or more	0.8	0.8	1.3	4.2	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		flat 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	<u>i</u>						
external wall	81.34	40.71	40.63	0.25	0	False	N/A
wall to common are	a 18.38	1.89	16.49	0.25	0.82	False	N/A
flat roof	57.3	4.2	53.1	0.18	0		N/A
Internal Elements							
Party Elements							
party wall	37.14						N/A

Thermal bridges:

SAP Input

Thermal bridges: User-defined (individual PSI-values) Y-Value = 0.0538

Length	PSI-value		
15.5	0.214	Other lintels (including other steel lintels)	
43.8	0.02	Jamb	
88	0	Intermediate floor between dwellings	
33.9	0.04	Flat roof	
19	0.042	Corner (normal)	
23.8	0.076	Party wall between dwellings	
14.1	0	Intermediate floor between dwellings (in blocks of flats)	
	15.5 43.8 88 33.9 19 23.8	15.5 0.214 43.8 0.02 88 0 33.9 0.04 19 0.042 23.8 0.076	

Approved source 2.4 0.12 Roof (insulation at ceiling level)

Ventilation:

Pressure test: Yes (As designed)

Ventilation: Natural ventilation (extract fans)

Number of chimneys: 0
Number of open flues: 0
Number of fans: 3
Number of sides sheltered: 2
Pressure test: 4

Main heating system:

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

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:

Main heating Control: Time and temperature zone control

Control code: 2207 Boiler interlock: Yes

Secondary heating system:

Secondary heating system: None

Water heating

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

Others:

Electricity tariff: standard tariff
In Smoke Control Area: Unknown

Conservatory: No conservatory

Low energy lights: 100%
Terrain type: Dense urban
EPC language: English
Wind turbine: No
Photovoltaics: None
Assess Zero Carbon Home: No

SAP Input

Predicted Energy Assessment

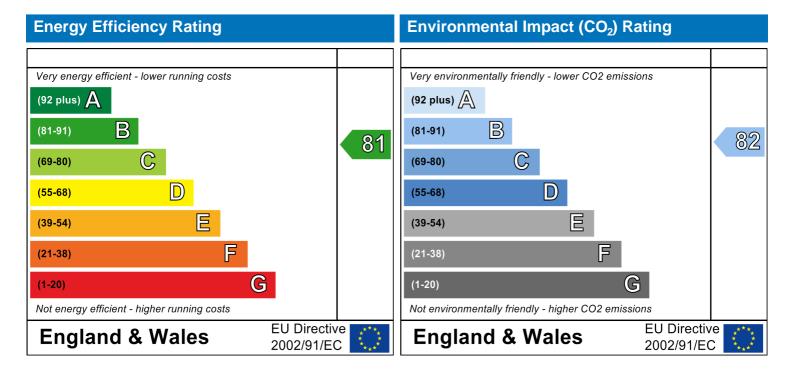


Flat 2 - new build 40-42 Parker Street London unknown

Dwelling type: Top floor Flat
Date of assessment: 24 March 2014
Produced by: Gary Nicholls
Total floor area: 88 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.