Regulations Compliance Report

Approved Document L1A 2010 edition assessed by Stroma FSAP 2009 program, Version: 1.5.0.11

Printed on 20 November 2012 at 16:19:54

Project Information:

Assessed By: Gary Nicholls (STRO003305) Building Type: Mid-terrace Flat

Dwelling Details:

NEW DWELLING DESIGN STAGE

Site Reference: Flat 1 - 33 Wicklow Street Plot Reference: BEC/STUDIOV/WICKLOW/0003

Address: Flat 1 - 33 Wicklow Street, 33 Wicklow Street, Kings Cross, London, N1

Client Details:

Name: Studio V Architects

Address: 224 West Hendon Broadway, Hendon, London, NW9 7ED

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: Natural gas

Fuel factor: 1.00 (natural gas)

Target Carbon Dioxide Emission Rate (TER) 19.78 kg/m²

Dwelling Carbon Dioxide Emission Rate (DER) 14.70 kg/m² OK

2 Fabric U-values

K
K
K
K

3 Air permeability

Air permeability at 50 pascals

Maximum

3.00

OK

4 Heating efficiency

Main Heating system: Database: (rev 331, product index 016661):

Boiler system with radiators or underfloor - mains gas

Brand name: Alpha Model: InTec 34C Model qualifier: (Combi boiler)

Efficiency 88.8 % SEDBUK2009

Minimum 88.0 % OK

Secondary heating system: None

5 Cylinder insulation

Hot water Storage: No cylinder

N/A

Solar water heating

Dedicated solar storage volume: 90 litres

Regulations Compliance Report

Minimum:	54 litres	OK	
6 Controls			
Space heating controls	Space heating controls Time and temperature zone control		
Hot water controls:	No cylinder		
Boiler interlock:	Yes		OK
7 Low energy lights			
Percentage of fixed lights wi	th low-energy fittings	100.0%	
Minimum		75.0%	OK
8 Mechanical ventilation			
Not applicable			

9 Summertime temperature

Overheating risk (South East England):

Slight OK

Based on:

Overshading: Average or unknown

Windows facing: North West 4.74m², Overhang twice as wide as window, ratio NaN

Ventilation rate: 4.00 Blinds/curtains: None

shutter closed 100% of daylight hours

10 Key features

Air permeablility3.0 m³/m²hWindows U-value1.3 W/m²KExternal Walls U-value0.19 W/m²K

Solar water heating

SAP Input

Property Details: Flat 1 - 33 Wicklow Street

Address: Flat 1 - 33 Wicklow Street, 33 Wicklow Street, Kings Cross, London, N1

Located in: England

Region: South East England

UPRN: na

Date of assessment: 20 November 2012
Date of certificate: 20 November 2012
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: Mid-terrace
Year Completed: 2012

Floor Location: Floor area: Storey height:

Floor 0 39 m² 2.8 m

Living area: 19.74 m² (fraction 0.506)

Front of dwelling faces: North West

Opening types:

Name: Source: Glazing: Argon: Frame: Type: front door Manufacturer Solid Wood Manufacturer Windows PVC-U windows front double-glazed Yes

Frame Factor: g-value: Name: Gap: **U-value:** Area: No. of Openings: front door 0.7 0 1.5 1.92 mm windows front 0.76 4.74 16mm or more 0.7 1.3 1

Name: Location: Orient: Width: Type-Name: Height: front door wall to common area South East Λ 0 windows front 0 0 corium steel wall North West

Overshading: Average or unknown

Opaque Elements:

Туре:	Gross area:	Openings:	Net area:	U-value:	Ru value:	Curtain wall:	Карра:
External Elements	<u> </u>						
corium steel wall	24.64	4.74	19.9	0.19	0	False	N/A
wall to common are	a 5.74	1.92	3.82	0.28	0.82	False	N/A
Internal Elements							
Party Elements							
party wall	43.96						N/A

Thermal bridges

Thermal bridges: User-defined y-value

y = 0.04

Reference: apa details

Ventilation

Pressure test: Yes (As designed)

SAP Input

Ventilation: Natural ventilation (extract fans)

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

Main heating system:

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

Gas boilers and oil boilers

Fuel: mains gas

Info Source: Boiler Database

Database: (rev 331, product index 016661) SEDBUK2009 88.8%

Brand name: Alpha Model: InTec 34C Model qualifier: (Combi boiler) Systems with radiators

Systems with radiators Pump in heat space: Yes

Delayed start

Main heating Control

Main heating Control: Time and temperature zone control

Control code: 2110 Boiler interlock: Yes

Secondary heating system:

Secondary heating system: None

Water heating

Water heating: From main heating system

Water code: 901 Fuel :mains gas No hot water cylinder

Flue Gas Heat Recovery System:

Database (rev 331, product index 060001)

Brand name: Zenex Model: GasSaver Model qualifier: GS-1 Solar panel: True aperture area: 2.5 Flat plate, glazed default values: False

collector zero-loss efficiency: 0.8 collector heat loss coefficient: 3.175 orientation: SE/SW, 30° pitch

overshading: None or Very Little (<20%)

dedicated solar store volume: 90 litres (seperate store)

solar powered pump: False

Others:

Electricity tariff: standard tariff
In Smoke Control Area: Unknown
Conservatory: No conservatory

Low energy lights: 100%

Terrain type: Low rise urban / suburban

EPC language: English
Wind turbine: No
Photovoltaics: None
Assess Zero Carbon Home: No

SAP Input

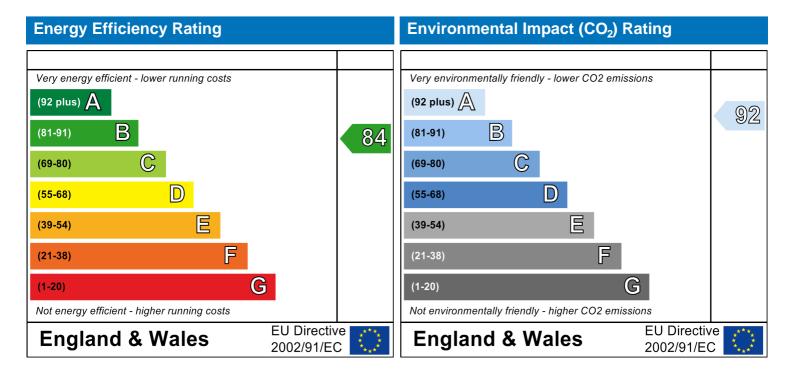
Predicted Energy Assessment

Flat 1 - 33 Wicklow Street 33 Wicklow Street Kings Cross London N1 Dwelling type:
Date of assessment:
Produced by:
Total floor area:

Mid-terrace Mid floor Flat 20 November 2012 Gary Nicholls 39 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.