Project Information

Building type   Ground-floor maisonette

Reference
Date   11 September 2019
Project   TYPE1_2BEDTH_NW_BeGreen
                Cardinal Court
                Woking
                GU22

REGULATION COMPLIANCE REPORT - Approved Document L1A, 2012 Edition, England
assessed by program JPA Designer version 6.04a1, printed on 13/9/2019 at 11:24:48

New dwelling as designed

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1 TER and DER

Fuel for main heating system: Standard tariff (fuel factor = 1.55)

Target Carbon Dioxide Emission Rate	TER = 23.06	
Dwelling Carbon Dioxide Emission Rate	DER = 17.05	OK

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)	TFEE = 50.4	
Dwelling Fabric Energy Efficiency (DFEE)	DFEE = 45.5	OK

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

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2b Fabric U-values

Element	Average	Highest	
Wall	0.13 (max. 0.30)	0.13 (max. 0.70)	OK
Floor	0.13 (max. 0.25)	0.13 (max. 0.70)	OK
Roof	0.13 (max. 0.20)	0.13 (max. 0.35)	OK
Openings	1.44 (max. 2.00)	1.60 (max. 3.30)	OK

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3 Air permeability

Air permeability at 50 pascals:	3.00	OK
Maximum :	10.00	

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4 Heating efficiency

Main heating system:

Air source heat pump, radiators, electric
Mitsubishi Ecodan 11.2 kW

Source of efficiency: from boiler database

Secondary heating system:

None -

5 Cylinder insulation
Hot water storage   No cylinder

6 Controls
(Also refer to "Domestic Building Services Compliance Guide" by the DCLG)

Space heating controls	2205 Programmer + at least 2 room thermostats	OK
Hot water controls	No cylinder	
Boiler Interlock	No	OK

7 Low energy lights

Percentage of fixed lights with low-energy fittings: 100.0%
Minimum: 75.0%   OK

8 Mechanical ventilation

Specific fan power : 0.66   Efficiency : 93.00
Maximum : 1.5W/(litre/sec) and efficiency not less than 70%   OK

9 Summertime temperature
Overheating risk (Thames Valley):   OK
                                        Not significant   OK

Based on:
   Thermal mass parameter :   100.00
   Overshading :   Average or unknown (20-60 % sky blocked)
Orientation : SouthEast
   Ventilation rate :   8.00
   Blinds/curtains :
   None with blinds/shutters closed 0.00% of daylight hours

10 Key features

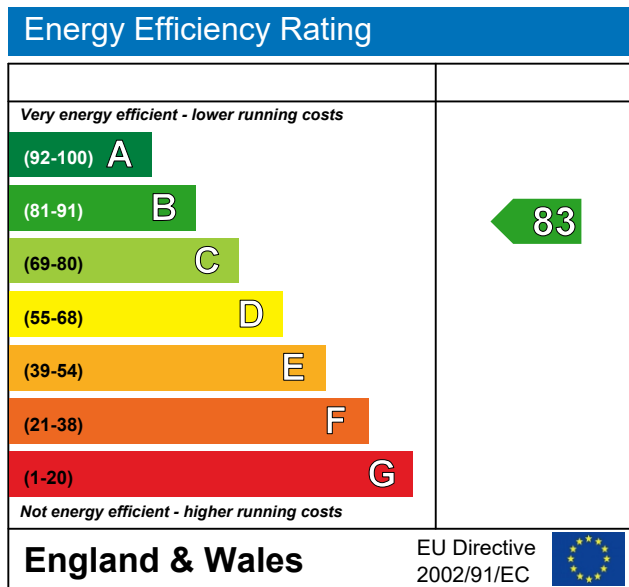Walls U-value 0.13 W/m²K
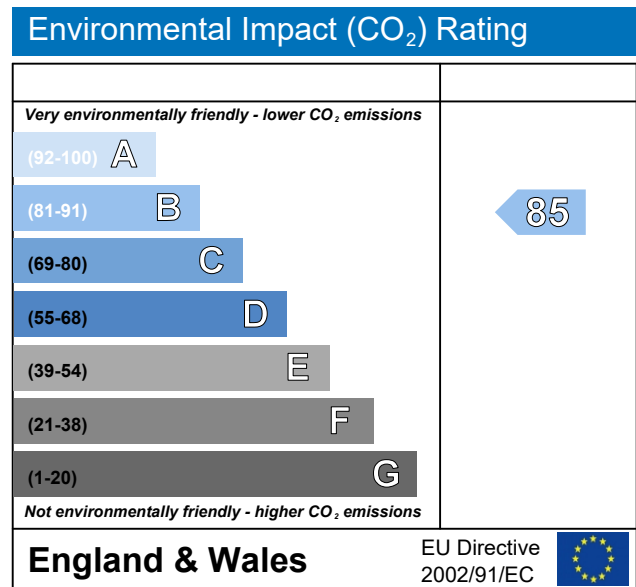Design air permeability 3.0 m³/h.m²

Predicted Energy Assessment

TYPE1_2BEDTH_NW_BeGreen
Cardinal Court
Woking
GU22

Dwelling type: Ground-floor maisonette
Date of assessment: 13 September 2019
Produced by   Elementa Consulting
Total floor area: 125 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 2012 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 (CO_2) emissions.

Energy Efficiency Rating

Very energy efficient - lower running costs

(92-100) A	
(81-91) B	83
(69-80) C	
(55-68) D	
(39-54) E	
(21-38) F	
(1-20) G	

Not energy efficient - higher running costs

England & Wales   EU Directive 2002/91/EC

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.

Environmental Impact (CO_2) Rating

Very environmentally friendly - lower CO_2 emissions

(92-100) A	
(81-91) B	85
(69-80) C	
(55-68) D	
(39-54) E	
(21-38) F	
(1-20) G	

Not environmentally friendly - higher CO_2 emissions

England & Wales   EU Directive 2002/91/EC

The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide (CO_2) emissions. The higher the rating the less impact it has on the environment.