Project Information

Building type Ground-floor maisonette

Reference

Date 11 September 2019

Project TYPE2A_3BEDTH_S_BeLean

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 11:27:25

New dwelling as designed

1	TER	and	DER
	IFR	ancı	DEK

Fuel for main heating system: Gas (mains) (fuel factor = 1.00)

Target Carbon Dioxide Emission Rate TER = 15.00 Dwelling Carbon Dioxide Emission Rate DER = 15.84

Excess emissions = 0.84kg/m² (5.6%)

1b TFEE and DFEE

Target Fabric Energy Efficiency (TFEE)

Dwelling Fabric Energy Efficiency (DFEE)

TFEE = 49.2

DFEE = 44.1

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

2b Fabric U-values

Element	<u>Average</u>	<u>Highest</u>	
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	1.45 (max. 2.00)	1.60 (max. 3.30)	OK

Fail

OK

OK

3 Air permeability

Air permeability at 50 pascals: 3.00
Maximum: 10.00

4 Heating efficiency Main heating system: Boiler and radiators, mains gas default from Table 4 of SAP document Source of efficiency: SAP default data default from Table 4 of SAP document Fail Efficiency: 84.0% Minimum: 88.0% Fail Secondary heating system: None -5 Cylinder insulation Hot water storage Manufacturer's declared cylinder loss factor (kWh/day) 1.00 Permitted by DBSCG 2.24 OK Primary pipework insulated Yes OK **6 Controls** (Also refer to "Domestic Building Services Compliance Guide" by the DCLG) OK Space heating controls Programmer + at least 2 room thermostats Cylinderstat - Yes OK Independent timer for DHW - Yes OK **Boiler Interlock** OK Yes 7 Low energy lights Percentage of fixed lights with low-energy fittings: 100.0% Minimum: 75.0% OK 8 Mechanical ventilation Specific fan power: 0.79 Efficiency: 92.00 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: North Ventilation rate: 8.00 Blinds/curtains: None with blinds/shutters closed 0.00% of daylight hours 10 Key features

Pitch

Pitched roofs insulated between joists U-value 0.13 W/m²K

Walls U-value 0.13 W/m²K

Design air permeability 3.0 m³/h.m²

Predicted Energy Assessment

TYPE2A 3BEDTH S BeLean **Cardinal Court** Woking GU22

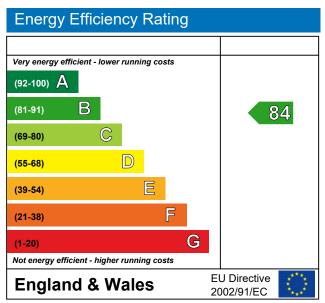
Dwelling type: Date of assessment: Produced by Total floor area:

Ground-floor maisonette 13 September 2019 Elementa Consulting

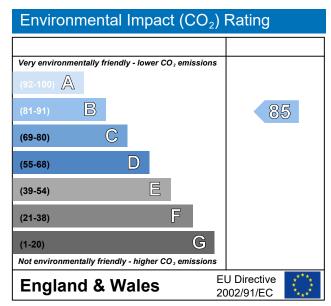
147 m²

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 (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 carbon dioxide (CO₂) emissions. The higher the rating the less impact it has on the environment.