Project Information

Building type Ground-floor maisonette

Reference	
Date	11 September 2019
Project	TYPE2A_3BEDTH_NW_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 11:26:39

New dwelling as designed

1 TER and DER Fuel for main heating system: Gas (mains) (fuel factor = 1.00) Target Carbon Dioxide Emission Rate Dwelling Carbon Dioxide Emission Rate Excess emissions = 0.74kg/m ² (4.9%)	TER = 15.28 DER = 16.02	Fail
1b TFEE and DFEE Target Fabric Energy Efficiency (TFEE) Dwelling Fabric Energy Efficiency (DFEE)	TFEE = 50.7 DFEE = 44.9	ОК

2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

2b Fabric U-values				
	Element	Average	<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
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3 Air permeability

Air permeability at 50 pascals: Maximum : 3.00 10.00 OK

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4 Heating efficiency Main heating system:		
Boiler and radiator	rs, mains gas	
	4 of SAP document	
SAP default data default from Table	4 of SAP document	Fail
	Efficiency: 84.0% Minimum: 88.0%	Fail
Secondary heating system:		i aii
None -		
5 Cylinder insulation		
Hot water storage		
	clared cylinder loss factor (kWh/day) 1.00	014
Permitted by DBS		OK
Primary pipework insulated	Yes	OK
6 Controls		
(Also refer to "Domestic Building Service	s Compliance Guide" by the DCLG)	
Space heating controls	Programmer + at least 2 room thermostats	OK
	Cylinderstat - Yes	OK
	Independent timer for DHW - Yes	OK
Boiler Interlock	Yes	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 : 0.79 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:	J	
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%	o of daylight hours	
10 Key features	ated between joists I Lyalue 0 13 W/m²K	

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

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Predicted Energy Assessment

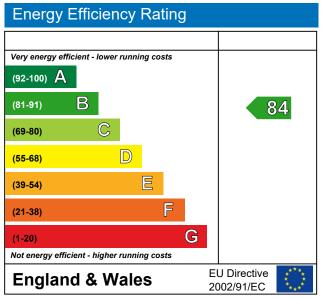
TYPE2A 3BEDTH NW BeLean Dwelling type: Cardinal Court Woking GU22

Date of assessment: Produced by Total floor area:

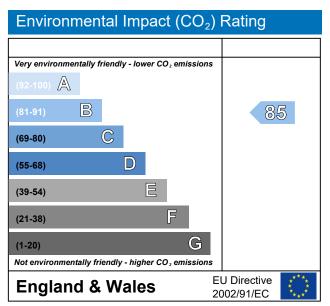
Ground-floor maisonette 13 September 2019 **Elementa Consulting** 147 m²

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 (CO_2) emissions. The higher the rating the less impact it has on the environment.