

This as built final submission provides evidence towards compliance with Part L of the Building Regulations, in accordance with Appendix A of AD L1A. It has been carried out by an On-Construction Domestic Energy Assessor and can be accepted for building control purposes without further checking. The assessor has confirmed any changes from the design submission with the builder. This report covers only items included within the SAP and is not a complete report of regulations compliance.

Assessor name	Mr Mark Newbery	Assessor number	8848
Client		Last modified	30/11/2016
Address	Flat 1 Phoebe Cusden House 31 Whitley Rise, Reading, RG2 0NN		

Check	Evidence	Produced by	OK?		
Criterion 1: predicted carbon dioxide emission from proposed dwelling does not exceed the target					
TER (kg CO ₂ /m ² .a)	Fuel = Biomass Fuel factor = 1.00 TER = 22.98	Authorised SAP Assessor			
DER for dwelling as designed (kg CO ₂ /m ² .a)	DER = 5.20	Authorised SAP Assessor			
Are emissions from dwelling as built less than or equal to the target?	DER 5.20 < TER 22.98	Authorised SAP Assessor	Passed		
Criterion 2: the performance of the building fabric and the heating, hot water and fixed lighting systems should be no worse than the design limits					
Fabric U-values					
Are all U-values better than the design limits in Table 2?	Element	Weighted average	Highest	Authorised SAP Assessor	Passed
	Wall	0.30 (max 0.30)	0.50 (max 0.70)		
	Party wall	0.20 (max 0.20)	N/A		
	Floor	0.19 (max 0.25)	0.19 (max 0.70)		
	Roof	(no roof)			
	Openings	1.40 (max 2.00)	1.40 (max 3.30)		
Thermal bridging					
How has the loss from thermal bridges been calculated?	Thermal bridging calculated using default y-value of 0.15			Authorised SAP Assessor	
Heating and hot water systems					
Does the efficiency of the heating systems meet the minimum value set out in the Domestic Heating Compliance Guide?	Community heating scheme			Authorised SAP Assessor	N/A
	Secondary heating system: None				
Does the insulation of the hot water cylinder meet the standards set out in the Domestic Heating Compliance Guide?	No hot water cylinder in the dwelling			Authorised SAP Assessor	
Do controls meet the minimum controls provision set out in the Domestic Heating Compliance Guide?	Space heating control: Flat rate charging, programmer and room thermostat			Authorised SAP Assessor	Failed
	No hot water cylinder in the dwelling				
Fixed internal lighting					
Does fixed internal lighting comply with paragraphs 42 to 44?	Schedule of installed fixed internal lighting Standard lights = 0 Low energy lights = 12			Authorised SAP Assessor	Passed
	Percentage of low energy lights = 100 % Minimum = 75 %				

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Criterion 3: the dwelling has appropriate passive control measures to limit solar gains			
Does the dwelling have a strong tendency to high summertime temperatures?	Overheating risk (June) = Not significant Overheating risk (July) = Slight Overheating risk (August) = Slight Region = Thames Thermal mass parameter = 250.00 Ventilation rate in hot weather = 2.00 ach Blinds/curtains = None	Authorised SAP Assessor	Passed
Criterion 4: the performance of the dwelling, as built, is consistent with the DER			
Design air permeability (m ³ /(h.m ²) at 50Pa)	Design air permeability = 5.00 Max air permeability = 10.00 As built air permeability = 5.77	Authorised SAP Assessor	Passed
Mechanical ventilation system Specific fan power (SFP)	Not applicable	Authorised SAP Assessor	
Have the key features of the design been included (or bettered) in practice?	The following floors/floor have a U-value less than 0.2W/m ² K: • GF (0.19) The following openings have a U-value less than 1.5W/m ² K: • Window reference 1 (1.40) • Window reference 2 (1.40) • Window reference 3 (1.40) • Door to corridor reference 4 (1.40) Use of the following low carbon or renewable technologies: • Biomass used for community heating	Authorised SAP Assessor	