

This design draft 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 using Approved SAP software. It has been prepared from plans and specifications and may not reflect the 'as built' property. This report covers only items included within the SAP and is not a complete report of regulations compliance.

Assessor name	Mr Philip French		Assessor number	687		
Client				Last modified	29/03/2013	
Address	Flat 4, 210 Kingston R	oad, Teddington, TW1	L1 9JF			
Check	Evidence			Produced	by OK?	
Criterion 1: predicted ca	rbon dioxide emission f	rom proposed dwellin	ng does not exceed the tar	get		
TER (kg CO₂/m².a)	Fuel = Mains Fuel factor = TER = 15.18	gas 1.00		Authorise	d SAP Assessor	
DER for dwelling as desig CO ₂ /m ² .a)	gned (kg DER = -6.08	DER = -6.08		Authorise	Authorised SAP Assessor	
Are emissions from dwe designed less than or eq target?	lling as DER -6.08 < ⁻ ual to the	TER 15.18		Authorise	SAP Assessor Passe	ed
Criterion 2: the perform	ance of the building fab	ric and the heating, h	ot water and fixed lighting	systems should be no worse	than the design limits	
Fabric U-values						
Are all U-values better tl design limits in Table 2?	nan the Element Wall Party wall Floor Roof Openings	Weighted averag 0.16 (max 0.30) 0.00 (max 0.20) (no floor) (no roof) 1.20 (max 2.00)	e Highest 0.16 (max 0.70) N/A 1.20 (max 3.30)	Authorise	3 SAP Assessor Passe	ed
Thermal bridging						
How has the loss from the bridges been calculated	nermal Thermal bric ? junction	lging calculated from	linear thermal transmittar	nces for each Authorise	d SAP Assessor	
Heating and hot water s	ystems					
Does the efficiency of th systems meet the minim set out in the Domestic I Compliance Guide?	e heating Main heating num value Mains gas, C Heating Fontecal Cor Efficiency = S Minimum = S Secondary h	g system: ombi boiler from data olla 30 A 90.00% - SEDBUK 200 88.00% eating system: None	abase 9	Authorise	d SAP Assessor Passe	ed
Does the insulation of th water cylinder meet the set out in the Domestic I Compliance Guide?	e hot No hot wate standards Heating	r cylinder		Authorise	d SAP Assessor	
Do controls meet the mi controls provision set ou Domestic Heating Comp Guide?	nimum Space heatir it in the Programmer liance Hot water co No hot wate Boiler interlo	ng control: , room thermostat ar ontrol: r cylinder ock (main system 1)	id TRVs	Authorise	d SAP Assessor Passe	ed

Check	Evidence	Produced by	OK?				
Fixed internal lighting							
Does fixed internal lighting compl with paragraphs 42 to 44?	ly Schedule of installed fixed internal lighting Standard lights = 0 Low energy lights = 8 Percentage of low energy lights = 100 %	Authorised SAP Assessor	Passed				
	Minimum = 75 %						
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) = Medium Overheating risk (August) = Medium Region = Thames Thermal mass parameter = 100.00 Ventilation rate in hot weather = 3.00 ach Blinds/curtains = Light-coloured curtain or roller blind	Authorised SAP Assessor	Passed				
Criterion 4: the performance of the dwelling, as designed, is consistent with the DER							
Design air permeability (m³/(h.m²) at 50Pa)	Design air permeability = 3.00 Max air permeability = 10.00	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 walls/wall have a U-value less than 0.2W/m ² K: d) • Wall 1 (0.16) • Wall 2 (0.00) The following openings have a U-value less than 1.5W/m ² K: • Window reference 1 (1.20) • Window reference 2 (1.20) • Window reference 3 (1.20) • Window reference 4 (1.20) • Window reference 5 (1.20) • Window reference 6 (1.20) Design air permeability of 3 m ³ /(h.m ²) is less than 5 m ³ /(h.m ²) at 50 Pa Use of the following low carbon or renewable technologies:	Authorised SAP Assessor					

Photovoltaic array