L1A 2013 - Regulations Compliance Report
Design - Final

This design final submission provides evidence towards compliance with Part L of the Building Regulations, in accordance with Appendix C 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. 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	Mrs Maureen Reynolds (OCDEA)	Assessor number	3582
Client		Last modified	24/08/2016
Address	Detached House Land off 2 Harewood Avenue, Simonstone, Burnley, BB12 7JB		

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 = N/A Fuel factor = 1.00 TER = 17.71	Authorised SAP Assessor	
DER for dwelling as designed (kg $CO_2/m^2.a$)	DER = 15.83	Authorised SAP Assessor	
Are emissions from dwelling as designed less than or equal to the target?	DER 15.83 < TER 17.71	Authorised SAP Assessor	Passed
Is the fabric energy efficiency of the dwellling as designed less than or equal to the target?	DFEE 57.7 < TFEE 58.6	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** Wall: 0.19 (max 0.30) / 0.19 (max 0.70) Party wall: (no party wall) Floor: 0.12 (max 0.25) / 0.12 (max 0.70) Roof: 0.13 (max 0.20) / 0.13 (max 0.35) Openings: 1.26 (max 2.00) / 1.70 (max 3.30)	Authorised SAP Assessor	Passed
Thermal bridging			
How has the loss from thermal bridges been calculated?	Thermal bridging calculated from linear thermal transmittances for each junction	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?	Main heating system: Mains gas, Combi boiler from database Potterton Promax Ultra Combi 24 ErP Efficiency = 89.10% - SEDBUK 2009 Minimum = 88.00% Secondary heating system: Room heaters - Wood logs Data from manufacturer, tested to BS EN 13240 wood burning stove Efficiency = 70.00% Minimum = 65.00%	Authorised SAP Assessor	Passed
Does the insulation of the hot water cylinder meet the standards set out in the Domestic Heating Compliance Guide?	No hot water cylinder	Authorised SAP Assessor	

Check	Evidence	Produced by	OK?
Do controls meet the minimum controls provision set out in the Domestic Heating Compliance Guide?	Space heating control: Programmer, room thermostat and TRVs Hot water control: No hot water cylinder Boiler interlock (main system 1)	Authorised SAP Assessor	Passed
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 Percentage of low energy lights = 100% Minimum = 75 %	Authorised SAP Assessor	Passed
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 (17.54°) Overheating risk (July) = Not significant (19.08°) Overheating risk (August) = Not significant (18.79°) Region = W Pennines (Eng) Thermal mass parameter = 250.00 Ventilation rate in hot weather = 4.00 ach Blinds/curtains = Dark-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 ($m^3/(h.m^2)$ at 50Pa)	Design air permeability = 5.00 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 floors have a U-value less than $0.13W/m^2K$: • ground floor (0.12) Secondary heating system present - Wood logs Use of the following low carbon or renewable technologies: • Wood logs used for secondary heating • Photovoltaic array	Authorised SAP Assessor	