

L1A 2010 - Regulations Compliance Report

As Built - Final



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 Mike Jones	Assessor number	1214
Client		Last modified	30/11/2015
Address	Barnefelde Cottage Burton Road, Rossett, Wrexham, LL12 0HY		

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 = Wood pellets in bulk Fuel factor = 1.00 TER = 17.14	Authorised SAP Assessor																			
DER for dwelling as designed (kg CO ₂ /m ² .a)	DER = 4.32	Authorised SAP Assessor																			
Are emissions from dwelling as built less than or equal to the target?	DER 4.32 < TER 17.14	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?	<table><tr><th>Element</th><th colspan="2">Weighted average Highest</th></tr><tr><td>Wall</td><td>0.24 (max 0.30)</td><td>0.25 (max 0.70)</td></tr><tr><td>Party wall</td><td colspan="2">(no party wall)</td></tr><tr><td>Floor</td><td>0.17 (max 0.25)</td><td>0.17 (max 0.70)</td></tr><tr><td>Roof</td><td>0.11 (max 0.20)</td><td>0.11 (max 0.35)</td></tr><tr><td>Openings</td><td>1.37 (max 2.00)</td><td>1.40 (max 3.30)</td></tr></table>	Element	Weighted average Highest		Wall	0.24 (max 0.30)	0.25 (max 0.70)	Party wall	(no party wall)		Floor	0.17 (max 0.25)	0.17 (max 0.70)	Roof	0.11 (max 0.20)	0.11 (max 0.35)	Openings	1.37 (max 2.00)	1.40 (max 3.30)	Authorised SAP Assessor	Passed
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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: Wood pellets in bulk, Regular boiler VarioWIN 12 KW 92.6 Data from manufacturer Efficiency = 92.60% 2009 SEDBUK Minimum = 75.00% Secondary heating system: Room heaters - Wood logs Closed room heater Efficiency = 65.00% 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?	Cylinder volume = 240.00 litres Nominal cylinder loss = 2.20kWh/day Maximum permitted cylinder loss = 3.47kWh/day Primary hot water pipes are insulated	Authorised SAP Assessor	Passed																		

Check	Evidence	Produced by	OK?
Do controls meet the minimum controls provision set out in the Domestic Heating Compliance Guide?	Space heating control: Time and temperature zone control Hot water control: Boiler interlock (main system 1) Cylinder thermostat Separate water control	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 = 16 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 Overheating risk (July) = Not significant Overheating risk (August) = Not significant Region = West Pennines Thermal mass parameter = 160.70 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 built, is consistent with the DER			
Design air permeability (m ³ /(h.m ²) at 50Pa)	Design air permeability = 15.00 (assumed) As built air permeability = 15.00	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: • semi walls (0.18) The following floors/floor have a U-value less than 0.2W/m ² K: • Floor 1 (0.17) The following roofs/roof have a U-value less than 0.13W/m ² K: • ground floor roof (0.11) • 1st floor roof (0.11) The following openings have a U-value less than 1.5W/m ² K: • Window reference 1 (1.40) • Window reference 2 (1.40) • Half glazed door reference 3 (1.10) • Window reference 4 (1.40) • Window reference 5 (1.40) • Window reference 6 (1.40) • Window reference 7 (1.40) • Window reference 8 (1.40) • Window reference 9 (1.40) • Window reference 10 (1.40) • Window reference 11 (1.40) • Window reference 12 (1.40) • Window reference 13 (1.40) • Half glazed door reference 14 (1.10) • Window reference 15 (1.40) • Window reference 16 (1.40) • Window reference 17 (1.40) • Window reference 18 (1.40) • Window reference 19 (1.40) Secondary heating system present - Wood logs Use of the following low carbon or renewable technologies: • Wood pellets in bulk used for main heating (system 1) • Wood logs used for secondary heating	Authorised SAP Assessor	