

This as built 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. 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 Tony Pursey	Assessor number	6772
Client		Last modified	03/10/2016
Address	58 Shirburn Rd, Eggbuckland, Plymouth, PL6 5PQ		

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 = 1.55 TER = 30.59	Authorised SAP Assessor																			
DER for dwelling as designed (kg CO ₂ /m ² .a)	DER = 9.14	Authorised SAP Assessor																			
Are emissions from dwelling as built less than or equal to the target?	DER 9.14 < TER 30.59	Authorised SAP Assessor	Passed																		
Is the fabric energy efficiency of the dwelling as built less than or equal to the target?	DFEE 43.3 < TFEE 61.4	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 border="1"> <thead> <tr> <th>Element</th> <th colspan="2">Weighted average Highest</th> </tr> </thead> <tbody> <tr> <td>Wall</td> <td>0.13 (max 0.30)</td> <td>0.13 (max 0.70)</td> </tr> <tr> <td>Party wall</td> <td colspan="2">(no party wall)</td> </tr> <tr> <td>Floor</td> <td>0.10 (max 0.25)</td> <td>0.10 (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>1.16 (max 2.00)</td> <td>1.30 (max 3.30)</td> </tr> </tbody> </table>	Element	Weighted average Highest		Wall	0.13 (max 0.30)	0.13 (max 0.70)	Party wall	(no party wall)		Floor	0.10 (max 0.25)	0.10 (max 0.70)	Roof	0.11 (max 0.20)	0.11 (max 0.35)	Openings	1.16 (max 2.00)	1.30 (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: Electricity, Room heaters Panel, convector or radiant heaters Efficiency = N/A Minimum = N/A Secondary heating system: None	Authorised SAP Assessor																			
Does the insulation of the hot water cylinder meet the standards set out in the Domestic Heating Compliance Guide?	Cylinder volume = 210.00 litres Declared cylinder loss = 1.89kWh/day Maximum permitted cylinder loss = 2.30kWh/day No primary pipework	Authorised SAP Assessor	Passed																		
Do controls meet the minimum controls provision set out in the Domestic Heating Compliance Guide?	Space heating control: Appliance thermostats Hot water control: Cylinder thermostat	Authorised SAP Assessor	Passed																		

Check	Evidence	Produced by	OK?
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 = 15 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) = Medium (22.08°) Overheating risk (July) = Medium (23.25°) Overheating risk (August) = Medium (23.16°) Region = SW England Thermal mass parameter = 100.00 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 = 1.88	Authorised SAP Assessor	Passed
Mechanical ventilation system Specific fan power (SFP)	Mechanical ventilation with heat recovery: SFP = 0.75 W/(litre/sec) Max SFP = 1.5 W/(litre/sec) Heat recovery efficiency = 86.00 % Min heat recovery efficiency = 70.00 %	Authorised SAP Assessor	Passed
Have the key features of the design been included (or bettered) in practice?	The following walls have a U-value less than 0.15W/m ² K: • Wall 1 (0.13) The following floors have a U-value less than 0.13W/m ² K: • Floor 1 (0.10) The following roofs have a U-value less than 0.13W/m ² K: • Roof 1 (0.11) The following openings have a U-value less than 1.2W/m ² K: • Window reference 4 (0.99) • Solid door reference 7 (1.00) As built air permeability of 1.88 m ³ /(h.m ²) is less than 4 m ³ /(h.m ²) at 50 Pa Use of the following low carbon or renewable technologies: • Photovoltaic array	Authorised SAP Assessor	