Building Regulations England Part L (BREL) Compliance Report

Approved Document L1 2021 Edition, England assessed by Array SAP 10 program, Array

Date: Wed 17 Jan 2024 09:48:19

Project Information			
Assessed By	Harry Davey	Building Type	Bungalow, Detached
OCDEA Registration	EES/020345	Assessment Date	2024-01-17

Dwelling Details					
Assessment Type	As designed	Total Floor Area	75 m ²		
Site Reference	7657-2 Plot Reference 00001				
Address	Gods Farm Dwelling 2 Harts Lane, Ardleigh, CO7 7QQ				

Client Details	
Name	Client
Company	Company
Address	Address, Town, AA11 1AA

This report covers items included within the SAP calculations. It is not a complete report of regulations compliance.

1a Target emission rate and dwelling emission rate				
Fuel for main heating system	Electricity			
Target carbon dioxide emission rate	10.43 kgCO ₂ /m ²			
Dwelling carbon dioxide emission rate	3.49 kgCO ₂ /m ²	OK		
1b Target primary energy rate and dwelling primary energy	l y			
Target primary energy	55.98 kWh _{PE} /m ²			
Dwelling primary energy	40.05 kWh _{PE} /m ²	OK		
1c Target fabric energy efficiency and dwelling fabric energy efficiency				
Target fabric energy efficiency	44.4 kWh/m ²			
Dwelling fabric energy efficiency	44.3 kWh/m ²	OK		

2a Fabric U-values	3			
Element	Maximum permitted average U-Value [W/m ² K]	Dwelling average U-Value [W/m ² K]	Element with highest individual U-Value	
External walls	0.26	0.18	Walls (1) (0.18)	OK
Party walls	0.2	N/A	N/A	N/A
Curtain walls	1.6	N/A	N/A	N/A
Floors	0.18	0.1	Heatloss Floor 1 (0.1)	OK
Roofs	0.16	0.13	Roof (1) (0.13)	OK
Windows, doors,	1.6	1.2	Opening (1.2)	OK
and roof windows				
Rooflights	2.2	N/A	N/A	N/A

2b Envelope elements (better than typically expected values are flagged with a subsequent (!))					
Name	Net area [m ²]	U-Value [W/m ² K]			
Exposed wall: Walls (1)	70.69	0.18			
Ground floor: Heatloss Floor 1, Heatloss Floor 1	75.45	0.1 (!)			
Exposed roof: Roof (1)	75.45	0.13			

2c Openings (better than typically expected values are flagged with a subsequent (!))					
Name	Area [m ²]	Orientation	Frame factor	U-Value [W/m ² K]	
Opening, hgd	3.045	West	N/A	1.2	
Opening, window	1.8375	West	0.7	1.2	
Opening, window	1.26	West	0.7	1.2	
Opening, window	1.8375	East	0.7	1.2	
Opening, window	1.26	East	0.7	1.2	
Opening, window	4.41	East	0.7	1.2	

	2d Thermal bridging (better than typically expected values are flagged with a subsequent (!))					
Building part 1 - I	Main Dwelling: Thermal bridging ca	Iculated from linear thermal transmit	tances for each ju	Inction		
Main element	Junction detail Source Psi value Drawing /					
	[W/mK] reference					
External wall	E10: Eaves (insulation at ceiling level)	Calculated by person with suitable expertise	0.06			

External wall wall E12: Gable (insulation at ceiling Calculated by person with suitable way in the second of the s	Main element	Junction detail		Source	Psi value [W/mK]	Drawing / reference	
steel linetics) expertise 0.05 External wall E3: Sill Calculated by person with suitable 0.05 External wall E4: Jamb Calculated by person with suitable 0.05 External wall E5: Ground floor (normal) Calculated by person with suitable 0.06 External wall E16: Corner (normal) Calculated by person with suitable 0.09 S Air permeability (bottor than typically oxpected values are flagged with a subsequent (I)) Maximum permitted air permeability at 50Pa 5 m²/hm² Design value OK Air permeability test certificate reference 5 m²/hm² Design value OK Design value OK Aspace heating Underfloor Floetmost Stack Sta	External wall				0.06		
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Lowest light source efficacy 80 lm/W OK		ed light source efficacy	75 lm/W				
						ОК	
	External lights co		N/A				

8 Mechanical ventilation					
System type: N/A					
Maximum permitted specific fan power	N/A				
Specific fan power	N/A		N/A		
Minimum permitted heat recovery	N/A				
efficiency					
Heat recovery efficiency	N/A		N/A		
Manufacturer/Model					
Commissioning					
9 Local generation	•				
Technology type: Photovoltaic system	(1)				
Peak power	1.2 kWp				
Orientation	East				
Pitch	30°				
Overshading	None or very little				
Manufacturer					
MCS certificate					
MCS certificate					
10 Heat networks					
N/A					
11 Supporting documentary evidence					
N/A					
12 Declarations					
a. Assessor Declaration					
This declaration by the assessor is confirmation that the contents of this BREL Compliance Report					
		formation submitted for this dwelling for			
the purpose of carrying out the "As de					
evidence (SAP Conventions, Appendix 1 (documentary evidence) schedules the minimum					
documentary evidence required) has been reviewed in the course of preparing this BREL					
Compliance Report.					
Signed:		Assessor ID:			
Name:		Date:			
Name:		Date:			
Name: b. Client Declaration N/A		Date:			