

Project Information

Building type Detached house

Plot number Pen Y Gaer

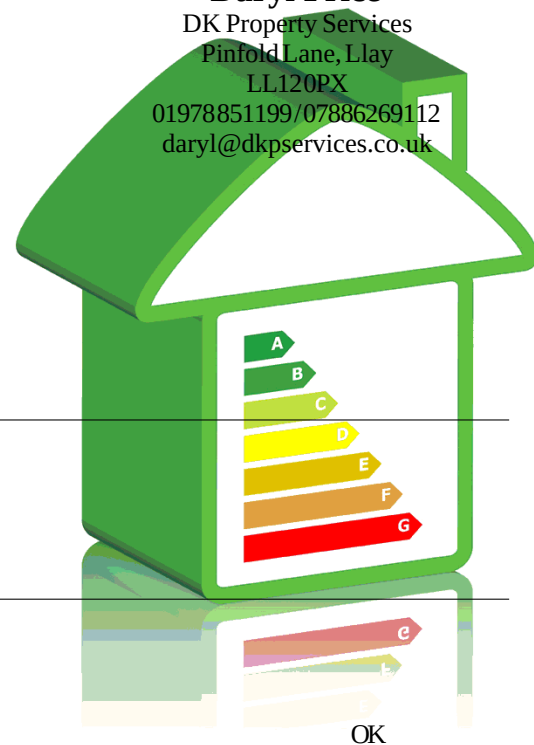
Reference

Date 2 February 2015

Client Barry Barnett Project Pen y Gaer Bungalow
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REGULATION COMPLIANCE REPORT - Approved Document L1A, 2010 Edition

assessed by program JPA Designer version 5.04x, printed on 20/2/2015 at 4:19:50 PM

New dwelling as built

1 TER and DER

Fuel for main heating system: Heating oil (fuel factor = 1.17)

Target Carbon Dioxide Emission Rate

TER = 16.14

Dwelling Carbon Dioxide Emission Rate

DER = 14.07

OK

2a Thermal bridging

Thermal bridging calculated using default y-value of 0.15

2b Fabric U-values

Element	Average	Highest	
Wall	0.18(max. 0.30)	0.30(max. 0.70)	OK
Floor	0.20(max. 0.25)	0.20(max. 0.70)	OK
Roof	0.16(max. 0.20)	0.30(max. 0.35)	OK
Openings	1.60(max. 2.00)	3.00(max. 3.30)	OK

3 Air permeability

Air permeability at 50 pascals:	15.00	OK
Maximum:	10.00	
(Small development - no pressure testing carried out)		

4 Heating efficiency

Main heating system:

Boiler and radiators, oil
Worcester Greenstar Heatslave External
from boiler database

Worcester Greenstar Heatslave External 25/32
Efficiency: 90.0% SEDBUK2009
Minimum: 86.0%

OK

Main heating system 2:

Boiler and radiators, wood logs
default from Table 4 of SAP document
Efficiency: 67.0%
Minimum: 67.0%

Fail

Secondary heating system:

Room heater systems - Solid fuel
Closed room heater with boiler (no radiators)
Efficiency: 67.00%
Minimum: 67.00%

OK

5 Cylinder insulation

Hot water storage	No cylinder
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6 Controls

(Also refer to "Domestic Building Services Compliance Guide" by the DCLG)

Space heating controls	Time and temperature zone control	OK
Hot water controls	No cylinder	
Hot water controls	No cylinder	

7 Low energy lights

Percentage of fixed lights with low-energy fittings: 100.0%	OK
Minimum: 75.0%	

8 Mechanical ventilation

Not applicable

9 Summertime temperature

Overheating risk (West Pennines):	Not significant	OK
		OK

Based on:

Thermal mass parameter :	92.29
Overshading :	Average or unknown (20-60 % sky blocked)

Orientation : SouthEast

Ventilation rate :	8.00
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Blinds/curtains :

None with blinds/shutters closed 0.00% of daylight hours

10 Key features

Walls U-value 0.15 W/m²K
Low-carbon or renewable for secondary heating fuel.
Wood logs
