

Code for Sustainable Homes (November 2010)

As Built - Final



This report details the calculations and results for Ene 1, 2 and 7 of the Code For Sustainable Homes.

This As Built Assessment has been carried out by an On-Construction Domestic Energy Assessor. The Assessor has confirmed any changes from the Design Submission with the builder. Code calculations are from the Technical Guide (November 2010).

Assessor name	Mr Steven Carroll	Assessor number	3744
Client	Gower Homes Limited	Last modified	23/01/2015
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Building regulation assessment - criterion 1

	kg/m ² /yr
DER	18.15
TER	20.27

Assessment of zero carbon home and low or zero carbon technologies

		Credits	Level
Dwelling emission rate (Ene 1)	CO ₂ reduction = 10.5 %	1.3	3
Fabric Energy Efficiency	FEE = 50.1	5.6	
Low or zero carbon technologies (Ene 7)	CO ₂ reduction = N/A	No credits	

Ene 1 - dwelling emission rate

	%	kWh/m ²	kgCO ₂ /m ² /yr
Assessment of Ene 1 (level 1-5)			
DER from SAP 2009 DER worksheet			18.15
Additional allowable generation		0.00	
CO ₂ emissions offset from generation			0.00
CO ₂ emissions offset from community biofuel CHP systems			0.00
Total CO ₂ emissions offset from SAP section 16 allowances			0.00
DER accounting for SAP section 16 allowances			18.15
CO ₂ reduction compared to TER			2.12
CO ₂ reduction as % of TER	10.5		

Assessment of Ene 1 (level 6)

DER from SAP 2009 DER worksheet	18.15	(ZC1)
CO ₂ emissions from appliances (equation L14)	16.89	(ZC2)
CO ₂ emissions from cooking (equation L16)	2.64	(ZC3)
Total CO ₂ emissions	37.68	(ZC4)
Additional allowable generation and its CO ₂ emissions offset	0.00	(ZC6)
CO ₂ emissions offset from additional allowable generation	0.00	(ZC7)
CO ₂ emissions offset from community biofuel CHP systems	0.00	(ZC5)
Net CO ₂ emissions	37.68	(ZC8)

Ene 1 - dwelling emission rate - level 6

There is no Zero Carbon Home definition in the current technical guide

	Criterion	Value	Pass/Fail
FEE	<= 46	50.1	Fail
Net CO ₂ emissions	<= 0.00	37.68	Fail
Result: Not level 6			
Number of credits for Ene 1			1.3

Ene 2 - Fabric Energy Efficiency

FEE			50.1
Number of credits for Ene 2			5.6

Ene 7 - low or zero carbon technologies

Not applicable