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	18/08/2014
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Building regulation assessment - criterion 1

	kg/m²/yr
DER	18.25
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 %	1.2	3
Fabric Energy Efficiency	FEE = 50.2	5.5	
Low or zero carbon technologies (Ene 7)	CO_2 reduction = N/A	No credits	

Ene 1 - dwelling emission rate

	%	kWh/m²	$kgCO_2/m^2/yr$	
Assessment of Ene 1 (level 1-5)				
DER from SAP 2009 DER worksheet			18.25	
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			**18.25**	
CO_2 reduction compared to TER			2.02	
CO_2 reduction as % of TER	10			
Assessment of Ene 1 (level 6)				
DER from SAP 2009 DER worksheet			18.25	(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			37.78	(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			**37.78**	(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	50.2	Fail
Net CO_2 emissions	<= 0.00	37.78	Fail

Result: Not level 6

Number of credits for Ene 1	**1.2**

Ene 2 - Fabric Energy Efficiency

FEE	50.2
Number of credits for Ene 2	**5.5**

Ene 7 - low or zero carbon technologies

Not applicable