

# Code for Sustainable Homes Report

9 MAR 2012

## Assessor and House Details

**Assessor Name:** Ian Brown  
**Property Address:** Hall, Flat 2  
 Ings Terrace  
 Grosmont  
 Whitby  
 YO22 5PG  
**Assessor Number:** STRO005119

## Building regulation assessment

**TER** kg/m<sup>2</sup>/year 30.69  
**DER** 24.92  
*The following code calculations are taken from the Code for Sustainable Homes Technical Guide (Nov 10)*

## Ene 1 Assessment - Dwelling Emission Rate

### Total Energy Type CO2 Emissions for Codes Levels 1 - 5

	%	kg/m <sup>2</sup> /year	
DER from SAP 2009 DER Worksheet		24.92	(ZC1)
TER		30.69	
Residual CO2 emissions offset from biofuel CHP		0	(ZC5)
CO2 emissions offset from additional allowable electricity generation		0	(ZC7)
Total CO2 emissions offset from SAP Section 16 allowances		0	
DER accounting for SAP Section 16 allowances		24.92	
% improvement DER/TER	18.8		

### Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m <sup>2</sup> /year	
DER accounting for SAP Section 16 allowances	24.92	(ZC1)
CO2 emissions from appliances, equation (L14)	14.23	(ZC2)
CO2 emissions from cooking, equation (L16)	1.61	(ZC3)
Net CO2 emissions	40.8	(ZC8)

### Result:

Credits awarded for Ene 1 = 2.3

Code Level = 3

## Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 80

Credits awarded for Ene 2 = 0

## Ene 7 - Low or Zero Carbon (LZC) Technologies

### Reduction in CO2 Emissions

	%	kg/m <sup>2</sup> /year	
Standard Case CO2 emissions		40.6	
*Actual Case CO2 emissions		40.8	
Reduction in CO2 emissions	-0.49		

Credits awarded for Ene 7 = 0

# Code for Sustainable Homes Report

## Assessor and Home Details

Assessor Name: Ian Brown  
 Property Address: Hall, Flat 1  
 Ings Terrace  
 Grosmont  
 Whitby  
 YO22 5PG

Assessor Number: STRO005119

NVM/NPA  
 - 9 MAR 2012

## Building regulation assessment

TER **kg/m<sup>2</sup>/year** 57.89  
 DER 46.77

The following code calculations are taken from the Code for Sustainable Homes Technical Guide (Nov 10)

## Ene 1 Assessment - Dwelling Emission Rate

### Total Energy Type CO2 Emissions for Codes Levels 1 - 5

	%	kg/m <sup>2</sup> /year	
DER from SAP 2009 DER Worksheet		46.77	(ZC1)
TER		57.89	
Residual CO2 emissions offset from biofuel CHP		0	(ZC5)
CO2 emissions offset from additional allowable electricity generation		0	(ZC7)
Total CO2 emissions offset from SAP Section 16 allowances		0	
DER accounting for SAP Section 16 allowances		46.77	
% improvement DER/TER	19.21		

### Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m <sup>2</sup> /year	
DER accounting for SAP Section 16 allowances	46.77	(ZC1)
CO2 emissions from appliances, equation (L14)	15.35	(ZC2)
CO2 emissions from cooking, equation (L16)	1.91	(ZC3)
Net CO2 emissions	64	(ZC8)

### Result:

Credits awarded for Ene 1 = 2.4

Code Level = 3

## Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 170.85

Credits awarded for Ene 2 = 0

## Ene 7 - Low or Zero Carbon (LZC) Technologies

### Reduction in CO2 Emissions

	%	kg/m <sup>2</sup> /year	
Standard Case CO2 emissions		63.4	
*Actual Case CO2 emissions		64	
Reduction in CO2 emissions	-0.95		

Credits awarded for Ene 7 = 0

# Code for Sustainable Homes Report

## Assessor and House Details

**Assessor Name:** Ian Brown  
**Property Address:** Methodist Chapel, Flat 2  
 Ings Terrace  
 Grosmont  
 Whitby  
 YO22 5PG

**Assessor Number:** STRO005119

NYMNP/A  
 - 9 MAR 2012

## Building regulation assessment

**TER** kg/m<sup>2</sup>/year  
 29.33  
**DER** 24.98  
*The following code calculations are taken from the Code for Sustainable Homes Technical Guide (Nov 10)*

## Ene 1 - Assessment - Dwelling Emission Rate

### Total Energy Type CO2 Emissions for Codes Levels 1 - 5

	%	kg/m <sup>2</sup> /year	
DER from SAP 2009 DER Worksheet		24.98	(ZC1)
TER		29.33	
Residual CO2 emissions offset from biofuel CHP		0	(ZC5)
CO2 emissions offset from additional allowable electricity generation		0	(ZC7)
Total CO2 emissions offset from SAP Section 16 allowances		0	
DER accounting for SAP Section 16 allowances		24.98	
% improvement DER/TER	14.85		

### Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m <sup>2</sup> /year	
DER accounting for SAP Section 16 allowances	24.98	(ZC1)
CO2 emissions from appliances, equation (L14)	13.94	(ZC2)
CO2 emissions from cooking, equation (L16)	1.54	(ZC3)
Net CO2 emissions	40.5	(ZC8)

### Result:

Credits awarded for Ene 1 = 1.9

Code Level = 3

## Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 81.19

Credits awarded for Ene 2 = 0

## Ene 7 - Low or Zero Carbon (LZC) Technologies

### Reduction in CO2 Emissions

	%	kg/m <sup>2</sup> /year	
Standard Case CO2 emissions		40.3	
*Actual Case CO2 emissions		40.5	
Reduction in CO2 emissions	-0.5		

Credits awarded for Ene 7 = 0

# Code for Sustainable Homes Report

## Assessor and House Details

**Assessor Name:** Ian Brown  
**Property Address:** Methodist Chapel, Flat 1  
 Ings Terrace  
 Grosmont  
 Whitby  
 YO22 5PG

**Assessor Number:** STRO005119

NYMNIPA  
 - 9 MAR 2012

## Building regulation assessment

**TER** kg/m<sup>2</sup>/year  
**DER** 29.33  
 24.31  
*The following code calculations are taken from the Code for Sustainable Homes Technical Guide (Nov 10)*

## Ene 1 Assessment - Dwelling Emission Rate

### Total Energy Type CO2 Emissions for Codes Levels 1 - 5

	%	kg/m <sup>2</sup> /year	
DER from SAP 2009 DER Worksheet		24.31	(ZC1)
TER		29.33	
Residual CO2 emissions offset from biofuel CHP		0	(ZC5)
CO2 emissions offset from additional allowable electricity generation		0	(ZC7)
Total CO2 emissions offset from SAP Section 16 allowances		0	
DER accounting for SAP Section 16 allowances		24.31	
% improvement DER/TER	17.11		

### Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m <sup>2</sup> /year	
DER accounting for SAP Section 16 allowances	24.31	(ZC1)
CO2 emissions from appliances, equation (L14)	13.94	(ZC2)
CO2 emissions from cooking, equation (L16)	1.54	(ZC3)
Net CO2 emissions	39.8	(ZC8)

### Result:

Credits awarded for Ene 1 = 2.1

Code Level = 3

## Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 78.15

Credits awarded for Ene 2 = 0

## Ene 7 - Low or Zero Carbon (LZC) Technologies

### Reduction in CO2 Emissions

	%	kg/m <sup>2</sup> /year	
Standard Case CO2 emissions		39.6	
*Actual Case CO2 emissions		39.8	
Reduction in CO2 emissions	-0.51		

Credits awarded for Ene 7 = 0