

Assessor and House Details

Assessor Name: Neil Ingham **Assessor Number:** STRO002943
Property Address: Flat A
 61 Gray's Inn Road
 LONDON
 WC1X 8TH

Buiding regulation assessment

TER **kg/m²/year** 18.02
 DER 24.06

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 ² /year	
DER from SAP 2009 DER Worksheet		24.06	(ZC1)
TER		18.02	
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		24.06	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	24.06	(ZC1)
CO2 emissions from appliances, equation (L14)	15.23	(ZC2)
CO2 emissions from cooking, equation (L16)	1.88	(ZC3)
Net CO2 emissions	41.2	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 71.1

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		40.9	
*Actual Case CO2 emissions		40.9	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

Assessor and House Details

Assessor Name: Neil Ingham **Assessor Number:** STRO002943
Property Address: Flat B
 61 Gray's Inn Road
 LONDON
 WC1X 8TH

Buiding regulation assessment

TER **kg/m²/year** 29.14
 DER 39.31

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 ² /year	
DER from SAP 2009 DER Worksheet		39.31	(ZC1)
TER		29.14	
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		39.31	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	39.31	(ZC1)
CO2 emissions from appliances, equation (L14)	17.89	(ZC2)
CO2 emissions from cooking, equation (L16)	3.77	(ZC3)
Net CO2 emissions	61	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 110.83

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		60.7	
*Actual Case CO2 emissions		60.7	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

Assessor and House Details

Assessor Name: Neil Ingham **Assessor Number:** STRO002943
Property Address: Flat C
 61 Gray's Inn Road
 LONDON
 WC1X 8TH

Buiding regulation assessment

TER **kg/m²/year** 18.63
 DER 25.07

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 ² /year	
DER from SAP 2009 DER Worksheet		25.07	(ZC1)
TER		18.63	
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		25.07	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	25.07	(ZC1)
CO2 emissions from appliances, equation (L14)	17.34	(ZC2)
CO2 emissions from cooking, equation (L16)	3.14	(ZC3)
Net CO2 emissions	45.6	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 57.03

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		45.5	
*Actual Case CO2 emissions		45.5	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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Buiding regulation assessment

TER **kg/m²/year** 18.27
 DER 24.29

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 ² /year	
DER from SAP 2009 DER Worksheet		24.29	(ZC1)
TER		18.27	
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		24.29	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	24.29	(ZC1)
CO2 emissions from appliances, equation (L14)	16.31	(ZC2)
CO2 emissions from cooking, equation (L16)	2.28	(ZC3)
Net CO2 emissions	42.9	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 67.01

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		42.7	
*Actual Case CO2 emissions		42.7	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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TER **kg/m²/year** 17.89
 DER 24.04

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 ² /year	
DER from SAP 2009 DER Worksheet		24.04	(ZC1)
TER		17.89	
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		24.04	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	24.04	(ZC1)
CO2 emissions from appliances, equation (L14)	17.34	(ZC2)
CO2 emissions from cooking, equation (L16)	3.14	(ZC3)
Net CO2 emissions	44.5	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 52.32

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		44.5	
*Actual Case CO2 emissions		44.5	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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TER **kg/m²/year** 16.14
 DER 21.21

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 ² /year	
DER from SAP 2009 DER Worksheet		21.21	(ZC1)
TER		16.14	
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		21.21	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	21.21	(ZC1)
CO2 emissions from appliances, equation (L14)	16.31	(ZC2)
CO2 emissions from cooking, equation (L16)	2.28	(ZC3)
Net CO2 emissions	39.8	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 53.36

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		39.7	
*Actual Case CO2 emissions		39.7	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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TER **kg/m²/year** 16.96
 DER 23.13

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 ² /year	
DER from SAP 2009 DER Worksheet		23.13	(ZC1)
TER		16.96	
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		23.13	
% improvement DER/TER	0		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	23.13	(ZC1)
CO2 emissions from appliances, equation (L14)	13.12	(ZC2)
CO2 emissions from cooking, equation (L16)	1.36	(ZC3)
Net CO2 emissions	37.6	(ZC8)

Result:

Credits awarded for Ene 1 = 0

Code Level = 0

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 75.52

Credits awarded for Ene 2 = 0

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		37.3	
*Actual Case CO2 emissions		37.3	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0