

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 17.48

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		17.48	(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		17.48	
% improvement DER/TER	2.98		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	17.48	(ZC1)
CO2 emissions from appliances, equation (L14)	15.23	(ZC2)
CO2 emissions from cooking, equation (L16)	1.88	(ZC3)
Net CO2 emissions	34.6	(ZC8)

Result:

Credits awarded for Ene 1 = 0.4

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 53.49

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		35.6	
*Actual Case CO2 emissions		35.6	
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 28.27

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		28.27	(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		28.27	
% improvement DER/TER	3		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	28.27	(ZC1)
CO2 emissions from appliances, equation (L14)	17.89	(ZC2)
CO2 emissions from cooking, equation (L16)	3.77	(ZC3)
Net CO2 emissions	49.9	(ZC8)

Result:

Credits awarded for Ene 1 = 0.4

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 83.81

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		52.8	
*Actual Case CO2 emissions		52.8	
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 17.67

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		17.67	(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		17.67	
% improvement DER/TER	5.15		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	17.67	(ZC1)
CO2 emissions from appliances, equation (L14)	17.34	(ZC2)
CO2 emissions from cooking, equation (L16)	3.14	(ZC3)
Net CO2 emissions	38.2	(ZC8)

Result:

Credits awarded for Ene 1 = 0.6

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 39.98

Credits awarded for Ene 2 = 6.5

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		40.3	
*Actual Case CO2 emissions		40.3	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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

Buiding regulation assessment

TER **kg/m²/year** 18.27
 DER 17.07

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		17.07	(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		17.07	
% improvement DER/TER	6.54		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	17.07	(ZC1)
CO2 emissions from appliances, equation (L14)	16.31	(ZC2)
CO2 emissions from cooking, equation (L16)	2.28	(ZC3)
Net CO2 emissions	35.7	(ZC8)

Result:

Credits awarded for Ene 1 = 0.8

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 47.16

Credits awarded for Ene 2 = 3.3

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		36.9	
*Actual Case CO2 emissions		36.9	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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TER **kg/m²/year** 17.89
 DER 16.98

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 ² /year	
DER from SAP 2009 DER Worksheet		16.98	(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		16.98	
% improvement DER/TER	5.06		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	16.98	(ZC1)
CO2 emissions from appliances, equation (L14)	17.34	(ZC2)
CO2 emissions from cooking, equation (L16)	3.14	(ZC3)
Net CO2 emissions	37.5	(ZC8)

Result:

Credits awarded for Ene 1 = 0.6

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 36.25

Credits awarded for Ene 2 = 7.7

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

Assessor and House Details

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

Buiding regulation assessment

TER **kg/m²/year** 16.14
 DER 15.07

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		15.07	(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		15.07	
% improvement DER/TER	6.61		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	15.07	(ZC1)
CO2 emissions from appliances, equation (L14)	16.31	(ZC2)
CO2 emissions from cooking, equation (L16)	2.28	(ZC3)
Net CO2 emissions	33.7	(ZC8)

Result:

Credits awarded for Ene 1 = 0.8

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 37.09

Credits awarded for Ene 2 = 7.5

Ene 7 - Low or Zero Carbon (LZC) Technologies

Reduction in CO2 Emissions

	%	kg/m ² /year	
Standard Case CO2 emissions		34.9	
*Actual Case CO2 emissions		34.9	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0

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Assessor Name: Neil Ingham **Assessor Number:** STRO002943
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TER **kg/m²/year** 16.96
 DER 16.37

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		16.37	(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		16.37	
% improvement DER/TER	3.49		

Total Energy Type CO2 Emissions for Codes Levels 6

	kg/m ² /year	
DER accounting for SAP Section 16 allowances	16.37	(ZC1)
CO2 emissions from appliances, equation (L14)	13.12	(ZC2)
CO2 emissions from cooking, equation (L16)	1.36	(ZC3)
Net CO2 emissions	30.9	(ZC8)

Result:

Credits awarded for Ene 1 = 0.4

Code Level = 3

Ene 2 - Fabric energy Efficiency

Fabric energy Efficiency: 56.3

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		31.8	
*Actual Case CO2 emissions		31.8	
Reduction in CO2 emissions	0		

Credits awarded for Ene 7 = 0