

Energy Statement for 31a Riverside Road London, N15 6DA - 25/6/2023

Summary

The proposed dwelling is a 2 storey new domestic property attached to an existing property number 31 Riverside. It is 76m² planned for residential use.

In line with the London Plan's net zero carbon targets, every effort was made to reduce the CO₂ to achieve at least a 35% reduction beyond Part L 2013 of the building regulations.

The calculations were carried out using Sap 2012 with a conversion to SAP 10 using the attached spreadsheet "GLA Carbon Emissions Report Spreadsheet V1.2".

1. Baseline

A baseline figure has been calculated where the DER and the DFEE complies with Part L 2013 of the building regulations. The baseline calculations are shown in Appendix 1. Baseline DER_TER_Calculations.

The Baseline summary is shown below.

SAP rating	82 B	CO ₂ Emissions	1.25 t/yr	DER	19.91 kgCO ₂ /yr/m ²	TER	19.91 kgCO ₂ /yr/m ²	Percentage DER<TER	0.00 %
Environmental	84 B	General Compliance	Pass	DFEE	57.12 kWh/m ² /yr	TFEE	60.11 kWh/m ² /yr	Percentage DFEE<TFEE	4.98 %

2. Be Lean

TFEE and DFEE

A 15.68% reduction on the TFEE has been achieved by improving the following fabric elements:

- The u-value of the walls have been reduced from 0.18 to 0.15
- The u-value of the floors have been reduced from 0.13 to 0.12
- Triple glazing has been used to reduce the uvalue from 1.30 to 1.00

See Appendix 2 for the Baseline DER_TER_Calculations and the supporting u-values.

A summary of the report at the “Be Lean” stage is shown below

SAP rating	83 B	CO ₂ Emissions	1.17 t/yr	DER	18.60 kgCO ₂ /yr/m ²	TER	19.91 kgCO ₂ /yr/m ²	Percentage DER<TER	6.58 %
Environmental	86 B	General Compliance	Pass	DFEE	50.68 kWh/m ² /yr	TFEE	60.11 kWh/m ² /yr	Percentage DFEE<TFEE	15.70 %

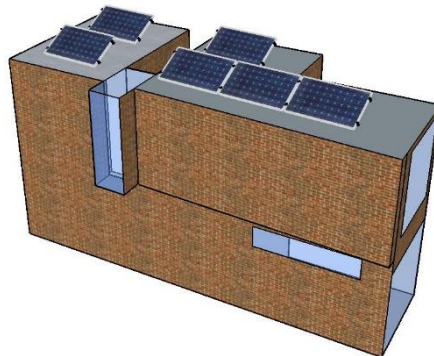
3. Be Clean

The building is a proposed single domestic dwelling and will not be connected to any community/district networks.

No additional calculations have been carried out for this stage.

4. Be Green

Further opportunities to reduce CO₂ emissions on the dwelling will be achieved by installing a 1.8Kw solar PV system, comprising 6 panels on the flat roof. The panels will be facing south.



This final improvement will reduce the CO₂ emissions from the baseline of 19.91 kgCO₂/yr/m² to 10.07 kgCO₂/yr/m². This represents a 49.42% reduction in emissions (compared to Part L1A 2013).

See Appendix 3 for the “Be Green” sap calculations.

The corresponding GLA Carbon Emissions Report Spreadsheet V1.2 is also attached.

Should you have any queries please contact me on the details below.

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