

Project: 9 No. New build Flats, 52-58 Queens Road, Reading.

Assessment Type: Part L1A

Job ID: CEPCN/1179

Stage: Design Stage

Compliance Status: **PASS**

Target U-Values + Heating systems	
Floor	Target U-Value to achieve 0.13 W/m2K
Walls	Target U-Value to achieve 0.24 W/m2K
Roof	Target U-Value to achieve 0.16 W/m2K
Heating	Currently assumed to be via ASHP (Current assumption - Mitsubishi Ecodan 5kW)
Hot Water	Supplied from main heating with storage cylinder
Windows	Target U-Value to achieve 1.4 W/m2K
Ventilation	Natural ventilation with intermittent extract fans

Executive Summary:

Following completion of the design stage L1A SAP calculations, it has been confirmed that all units within the scheme will meet Part L compliance and achieve in excess of a 19% carbon reduction as required to meet the council specific targets.

The average carbon reduction for the scheme is: 36.51%

The reduction is being achieved through a fabric first approach along with Air Source Heat Pumps proposed to supply the main heating and hot water demand to each flat.

Block compliance sheet has been provided below which summaries the results.

Block Compliance WorkSheet: Block Compliance

User Details

Assessor Name:

Software Name: Stroma FSAP

Stroma Number:

Software Version:

Version: 1.0.5.50

Calculation Details

Dwelling	DER	TER	DFEE	TFEE	TFA
Flat 1	16.3	27.88	52.1	55.8	73.36
Flat 2	15.54	25.94	45.7	45.8	63
Flat 3	14.78	22.95	35.4	36.8	73.36
Flat 4	14.79	22.54	31.8	32.5	63
Flat 5	14.78	22.95	35.4	36.8	73.36
Flat 6	14.79	22.54	31.8	32.5	63
Flat 7	16.12	25.51	52.8	54.2	97.13
Flat 8	19.24	27.82	42.7	45.2	57.98
Flat 9	17.98	28.56	51.4	53.8	70.74

Calculation Summary

Total Floor Area	634.93
Average TER	25.20
Average DER	16.00
Average DFEE	42.75
Average TFEE	44.36
Compliance	Pass
% Improvement DER TER	36.51
% Improvement DFEE TFEE	3.63