

Centric Close Site Wide- Energy and CO2 Demand

Element	Description	Residential units only	Commercial Units	Site Total	Unit
		Total	Total	Total	
Energy Demand	Total Site Energy Demand Pat L1A 2013 (TER)	343,766	57,166	400,932	KWhr/Year
	Total Site Energy Demand Part L1A 2013 (DER)	354,571	53,073	407,644	KWhr/Year
CO2 Demand	Total Site CO2 Demand Pat L1A 2013 (TER)	83,162	19,972	103,134	KGCO2/Year
	Total Site CO2 Demand Part L1A 2013 (DER)	54,554	15,322	69,876	KGCO2/Year
CO2 Targets	35% Improvement over TER	29,107	6,990	36,097	KGCO2/Year
	0% Target energy through renewables/low carbon	0	0	0	KWhr/Year
CO2 Savings	CO2 saved through fabric	28,608	4,650	33,258	KGCO2/Year
	CO2 saved through renewables	5,486		5,486	KGCO2/Year
	Total CO2 Saved through fabric and renewables	34,094	4,650	38,744	KGCO2/Year
	Percentage CO2 improvement through fabric	34.40%	23.28%	32.25%	%
	Percentage CO2 improvement through renewables only	6.60%	0.00%	5.32%	%
	Percentage CO2 improvement over TER fabric and renewables	41.00%	23.28%	37.57%	%
Energy Savings	Energy saved through fabric	-10,805	4,093	-6,712	KWhr/Year
	Energy saved through renewables	10,570	0	10,570	KWhr/Year
	Total Energy Saved through fabric and renewables	10,570		10,570	KWhr/Year
	Percentage energy improvement through fabric	-3.14%	7.16%	-1.67%	%
	Percentage energy improvement through renewables only	3.07%	0.00%	2.64%	%
	Percentage energy improvement over TER fabric and renewables	3.07%	0.00%	2.64%	%

Fabric Specification/Summary	
Ground Floor	0.2
Suspended Floor	0.2
Exposed floor	NA
Basement Floor	NA
External Wall 1	0.18
External Wall 2	NA
Party Wall	0 (fully Filled)
Communal Areas	Heated
Communal Walls	NA
Cold Roof	NA
Flat Roof	0.16
Exposed Roof	0.16
Doors	NA- As Communals heated
Windows	1.3 (0.45 G)
PSI Values Metsec	Accredited Details
Thermal Mass	Measured (Low)
Ventilation	System 3 - Centralised
DAP	4.7

PV Summary	
WP Cell	0.300
Total No of PV Cells	46
Total M2 (estimated)	81.728
Total KWp Output	13.899
Pitch	0.000
Orientation	South/South East
Total CO2 Saving Kg CO2	5,486
Total Energy Saving Kwh	10,570

CHP Summary	
Fraction Heat CHP	80%
Fraction heat 2nd boiler	20%
Thermal Efficiency CHP	68.1%
Electrical Efficiency CHP	29.1%
Efficiency Gas Boiler	92.3%
Distribution heat Loss	10%
Electrical heat loss	1%