

Energy and Carbon Proforma
Non-residential

Major development (+1,000m²)
Version 1.0

Project Name: Raise Rochdale PRU
Application ref: -
Date: 25.03.25

		Ref. name						
		Area (m ² GIA)						
		Target values	Building 1	Building 2	Building 3	Building 4	Building 5	+
Minimise energy demand	Space heating demand (kWh/m ² GIA/yr)	≤ 15	11.5					
	Space cooling demand (kWh/m ² GIA/yr)	≤ 15	0.06					
	Calculation methodology used to calculate space heating demand and confirmation that this covers all homes/blocks	Predictive energy model	Regulatory energy model					
	Form factor per building	≤ 2	2.42					
	Average external wall U-value (W/m ² K)	≤ 0.15	0.14					
	Average window U-value (W/m ² K)	≤ 1 (triple)	1					
	Air permeability rate (m ³ /h/m ² @ 50 Pa)	≤ 1	3					
Maximise energy efficiency	BREEAM Ene 01 rating	Excellent						
	Energy use intensity (kWh/m ² GIA/yr)	-	40.46					
	Calculation methodology used to calculate energy use intensity and confirmation that this covers all homes/blocks	Predictive energy model	Regulatory energy model					
Use renewable energy	PV footprint area (% of ground floor space)	-						
	Annual renewable energy generation (kWh/m ² building footprint/yr)	-	15.09					
	Renewable energy balance (%)	-	27.1					
	Total energy used (kWh/yr)	-	22646					
	Total energy generated on-site (kWh/yr)	-	22646					
Use low carbon energy	Fossil fuel free (yes/no)	Yes	Yes					
	Heat source	Electric	Electric					
	Low Carbon Heat Appraisal completed	Yes	Yes					
	Heat network suitability	-	No					
	Exemption requested	-	No					
	Efficiency of heating system (SCOP)	≥ 3.5	2.5					
	Carbon content of heat (gCO ₂ /kWh)	≤ 100	57.6					
Reduce overheating risk	Has CIBSE TM52 been used to calculate overheating and does the building pass?	Yes	Yes					
	What percentage of spaces are cooled? (% of GIA)	-	-					
	Has a CIBSE TM52 assessment been carried out using DSY2 and DSY3 weather files? Have any additional passive measures been included as a result?	Yes	No					
Minimise embodied carbon	Upfront embodied carbon (kgCO ₂ e/m ² GIA)	-	Not Calculated					
	List top three materials with the highest upfront embodied carbon emissions (kgCO ₂ e/m ² GIA): Material 1	-						
	Material 2	-						
	Material 3							
	Lifecycle embodied carbon (kgCO ₂ e/m ² GIA) - for large major developments only	-						
Offsets	Offset contribution (£)	-	Not Calculated					