Energy and Carbon Proforma
Residential

Major development *(+10 homes)*

Version 1.0

GMCA GREATER MANCHESTER COMBINED AUTHORITY

Project Name: 48 Store Street

Application ref: 144771/FO/2025

Date: Dec-25

		Ref. name	Store St
		No. dwellings	
		Area (m^2 GIA)	
		Target values	**Building 1**
Minimise energy demand	**Space heating demand (kWh/m^2 GIA/yr)**	***≤ 15** (flats) **≤ 20** (houses)*	**15**
	Calculation methodology used to calculate space heating demand and confirmation that this covers all homes/blocks	*Predictive energy model*	SAP
	Form factor per building	*≤ 2*	0.77
	Average external wall U-value (W/m^2K)	*≤ 0.15*	0.15
	Average window U-value (W/m^2K)	*≤ 1 (triple)*	1.2
	Air permeability rate (m^3/h/m^2 @ 50 Pa)	*≤ 1*	3
Maximise energy efficiency	**Energy use intensity (kWh/m^2 GIA/yr)**	***≤ 35***	**35**
	Calculation methodology used to calculate energy use intensity and confirmation that this covers all homes/blocks	*Predictive energy model*	SAP
Use renewable energy	**PV footprint area (% of ground floor space)**	***≥ 40***	**N/A**
	Annual renewable energy generation (kWh/m^2 building footprint/yr)	-	
	Renewable energy balance (%)	-	
	Total energy used (kWh/yr)	-	
	Total energy generated on-site (kWh/yr)	-	
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	-	-
	Exemption requested	-	-
	Efficiency of heating system (SCOP)	*≥ 3.5*	≥ 3.5
	Carbon content of heat (gCO_2/kWh)	*≤ 100*	≤ 100
Reduce overheating risk	**Have Part O overheating requirements been met without the use of mechanical cooling?**	***Yes***	**Yes**
	If no, how many homes are cooled?	*Yes*	Yes
	Has a CIBSE TM59 assessment been carried out using DSY2 and DSY3 weather files? Have any additional passive measures been included as a result?	*Yes*	Yes
Minimise embodied carbon	**Upfront embodied carbon ($kgCO_2e/m^2GIA$)**	***≤ 500-600***	
	List top three materials with the highest upfront embodied carbon emissions ($kgCO_2e/m^2GIA$): Material 1	-	100 (Steel)
	Material 2	-	150 (Concrete)
	Material 3		65 (Brick)
	Lifecycle embodied carbon ($kgCO_2e/m^2GIA$) - *for large major developments only*	-	400
Offsets	**Offset contribution (£)**	**-**	