

Energy and Carbon Proforma
Residential

Small minor development (XL extensions & 1 home)
Version 1.0

Project Name: New Build House - 2 Delamere Ave, Whitefield, M45 7WJ
Application ref: not known
Date: 14/10/2025

		Ref. name	2 Delamere Avenue, M45 7WJ
		Area (m ² GIA)	244
		Target values	Extension/home
Minimise energy demand	Form factor per home or extension	≤ 2	2.5
	Average glazing ratio per façade: North	~10-15%	16
	South	~20-30%	45
	East	~10-20%	3.5
	West	~10-20%	8.5
	Average external walls U-value (W/m ² K)	≤ 0.15	0.12
	Wall thickness (mm)	> 400	415
	Average ground floor U-value (W/m ² K)	≤ 0.10	0.12
	Average external roofs U-value (W/m ² K)	≤ 0.10	0.1
	Average external doors U-value (W/m ² K)	≤ 1.0	1
	Average windows U-value (W/m ² K) (or double/ triple glazed)	≤ 1 (triple)	0.8
	Air permeability rate (m ³ /h/m ² @ 50 Pa)	≤ 3	3
	Ventilation strategy (background only)	-	extract/vents
Use renewable energy	PV footprint area (% of ground floor space)	≥ 40	40
Use low carbon energy	Fossil fuel free (yes/no)	Yes	yes
	Heat source - Where the system for generating space heating and hot water is a heat pump and it achieves a SCOP of 3.5 or higher (then a Low Carbon Heat Appraisal not required)	Electric	electric
Reduce overheating risk	Has the Good Homes Alliance overheating risk assessment tool been completed?	Yes	yes
	Resulting score from the GHA tool?	<12	6
Minimise embodied carbon	Confirmation that a summary of the efforts made to design a lean, low carbon structure and building design has been submitted?	Yes	yes