


Regents Park Medical Centre, Euston Road, London														
Building Regulations 2021		Address				As-Designed/ As-Built Drawings		SBEM Level	Weather File	BER kgCO ₂ /m ² .annum	TER kgCO ₂ /m ² .annum	BER/TER Improvement (%)		
C2 : Hospital (Hospital)		Regents Park Medical Centre, Euston Road, London, NW1 3AD				As-Designed		5	London TRY	3.11	6.21	49.92%		
Construction Element	U-Value	U-Value (Part L Limiting)	Description (Outside to inside)											
Basement/Ground floor	0.14	0.18	Pile foundation (U - value and construction details are indicative only; to be confirmed during detailed stage)											
External wall	0.18	0.26	100mm external skin, 10mm cavity, 90mm EcoTherm Eco-cavity insulation, 100mm Lightweight internal skin (U - value and construction details are indicative only; to be confirmed during detailed stage)											
Internal Partitions	0.82		Stud Wall (TBC)											
Internal Floors	0.37		200mm Timber joists (U - value and construction details are indicative only; to be confirmed during detailed stage)											
Roof (Flat roof)	0.14	0.18	150mm timber joist, 100mm insulation, single ply membrane covering (U - value and construction details are indicative only; to be confirmed during detailed stage)											
Roof (Green roof)	0.10	0.18	Green Roof System, Waterproofing, Vapour Control Layer, 18mm Plywood , 200mm PIR Insulation (0.022 W/mK), 200mm Timber Joists, 12.5mm Plasterboard (U - value and construction details are indicative only; to be confirmed during detailed stage)											
Roof (Pitched roof)	0.14	0.16	150mm timber joist, 100mm insulation, single ply membrane covering (U - value and construction details are indicative only; to be confirmed during detailed stage)											
Construction Element	U-Value	U-Value (Part L Limiting)	G Value	Frame Factor	Description (manufacturer, make and model)									
Windows and Glazed doors	1.20	1.60	0.40	10%	Double glazed , whole window U-Value									
Skylights	1.20	2.20	0.40	10%	Double glazed , whole window U-Value									
Construction Notes		Description (manufacturer, make and model)												
Air permeability		5 m ³ /hr/m ²							Targeted					
Heating and Cooling		System Details			Emitter			Controls						
Heating System 1		Air Source Heat Pumps (SCOP 4.8) For Space Heating Only (To all spaces except plant room)			Ceiling Cassettes			Central time control, Local temperature control						
Hot Water (Same as Space Heating)		System Details			Location			Secondary Circulation	Circulation Losses (W/m)	Pump Power (kW)	Loop Length (m)	Storage Tank (l)	Storage Losses (kWh/L.day)	Delivery Efficiency (%)
Hot Water System 1		Electric Standalone Hot water system			WCs			N	n/a	N	N	n/a	n/a	100
Ventilation		System Details			SFP (W/l/s)			Leakage tested ductwork CEN Classification	AHU CEN leakage standards class	Heat Recovery	Heat Recovery Efficiency (%)	Heat Recovery Type	Variable HR	
Mechanical Ventilation with Heat Recovery (MVHR)		MVHR with CO2 sensors (To all spaces except plant room)			0.90			-	-	Y	75	-	N	
Electrical Flow Control		Description												
Power Correction Factor		N		<0.90										
Separate Metering		N		n/a										
Renewables		Description												
PV		10.2 m ² southeast facing PV panels at 10 degree inclination from horizontal, 147 degree azimuth and a nominal efficiency of 21%												
Solar Water Heating		N												
Wind Turbine		N												
Lighting		Description (As per the lighting layouts in the maintenance manual and site visit data)												
Lighting		LED lighting (125lm/W, LOR 1)												
Lighting Controls		Passive Infrared (PIR) sensors to all spaces (Automatic ON and OFF) Daylight sensors in all spaces with windows												
Parasitic Power		0.1 W/m ² assumed for stand alone PIR sensors. 0.1 W/m ² assumed for the combination of Daylight and PIR sensors.■												
Sign Off of details		Name	Alisha Pinheiro / Meeradevi Kathaliyil		Date	05.12.2024			By signing this document, I declare that the aforementioned details are all correct as per the final "as designed" specifications:		Name	Date		
											Sign			