

Scamps Nursery



Building Regulations 2013 L2A										
Building Type	Address			As-Designed/As-Built Drawings	SBEM Level	Asset Rating (A-G) (0-150)	BER	TER	BER/TER Improvement (%)	
D1: Primary School	Strathmore Road, Teddington			As Designed	5	TBC	3.70	9.90	62.63%	
Construction Element	U-Value	Description								
External Wall	0.18	Brick outer leaf, 120mm cavity with partial fill solid insulation (0.021 conductivity), Blockwork inner leaf, plasterboard on battens.								
Internal Partition	1.79	12.5mm plasterboard / 50mm cavity / 12.5mm plasterboard								
Ground Floor	0.16	Insulated ground floor slab								
Flat Roof	0.17	Insulated concrete 'green' roof								
Construction Element	U-Value	G Value	Frame Factor	Description (manufacturer, make and model)						
External Window	1.40	0.43	10%	Light Transmittance 71%. Average value for U and G-Value (U-Value assumed based on SAP Appendix S)						
Glazed Doors	1.40	0.43	10%	Light Transmittance 71%. Average value for U and G-Value (U-Value assumed based on SAP Appendix S)						
Rooflight	1.40	0.43	10%	Light Transmittance 71%. Average value for U and G-Value (U-Value assumed based on SAP Appendix S)						
Construction Notes	Description (manufacturer, make and model)									
Construction Details	Standard									
Air-permeability	5 (assumed based on construction year and non domestic EPC conventions)									
Heating and Cooling	System Details			Emitter	Controls					
Heating System	Air Source Heat Pump - SCOP = 4.00 (Variable speed pumps, with differential sensor in system)			Underfloor	Local time temperature control with optimum start/stop.					
Hot Water	System Details			Secondary Circulation	Circulation Losses (W/m)	Pump Power (kW)	Loop Length (m)	Storage Tank (l)	Storage Losses (kWh/l.day)	
Hot Water System	Air Source Heat Pump - SCOP = 4.00 (Variable speed pumps, with differential sensor in system)			N	n/a	n/a	n/a	300	0.047	
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 (extract)	Mechanical extract - Toilets and kitchen			0.25/0.3	n/a	n/a	N	N/a	N/a	n/a
Electrical Flow Control	Description									
Power Correction Factor	N	<0.9								
Separate Metering	Y	Lighting, Heating, Air conditioning, Ventilation all on separate meters. BMS warns for 'out of range' values								
Renewables	Description									
PV	N									
Solar Water Heating	N									
Wind Turbine	N									
Lighting	Description									
Lighting	min 100 lm/W - All Rooms									
Lighting Controls	Occupancy Auto-on-Off sensors -Corridors, combined PIR and daylight sensors in the offices, kitchen, toilets and teaching areas									
Parasitic power	0.1 W/m2									
Sign Off of details	Name	Callum Neil	Date	27.11.2019	By signing this document, I declare that the aforementioned details are all correct as per the final "As-Built" specifications:	Name		Date		
						Sign				