E & S Bristol Limited
Energy & Sustainability Services
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Design SBEM Summary

Client Name	Carnell Warren Associates	Project Name	Kings Terrace Office	Assessor	Marcus Eves

Building Fabric		
Element	**Specification**	**U-Value**
Basement Floors	Spec TBC	0.20 W/m²k
Exposed Upper Floors	Spec TBC	0.20 W/m²k
Floor Over Commercial	Spec TBC	0.20 W/m²k
Existing Brick Walls	Internally Insulated – Spec TBC	0.30 W/m²k
Existing Basement Walls	Internally Insulated – Spec TBC	0.30 W/m²k
Walls to Commercial	Spec TBC	0.25 W/m²k
New Top Floor Walls	Light Weight Frame – Spec TBC	0.25 W/m²k
Party Walls between Dwellings	Solid Walls	0.00 W/m²k
Flat Roof/Terrace (Existing)	Spec TBC	0.16 W/m²k
New Roof Slope	Spec TBC	0.16 W/m²k
New Main Flat roofs	Spec TBC	0.16 W/m²k
Windows	Double glazed Argon filled G-Value:0.63. Light Transmittance: 0.72	1.40 W/m²k
Rooflights	Double glazed Argon filled LowE coated glass G Value: 0.63 Light Transmittance: 0.72	1.40 W/m²k
Solid Doors	Insulated Doors	1.40 W/m²k

Element	Details
Air Permeability	Score of 15.00 m^3/hm^2 Exempt from testing
Thermal Bridging	Standard Construction Details
Thermal Mass	Lightweight

Building Services		
Element	**Specification**	
Ventilation	Natural Ventilation	
	WCs	6L/s flow rate per WC & Specific Fan Power: 0.5W/l/s
	Shower	15L/s flow rate per WC & Specific Fan Power: 0.5W/l/s
Heating System	Daikin VRV Heating and Cooling Heating Efficiency (COP): 4.0 Cooling Efficiency (EER):4.0 SEER: 6.0	
Heating Controls	Time and temperature zone controls	
Hot Water	Instantaneous/ Standalone electric Hot Water Heaters	
Lighting	Low Energy LED Lighting throughout	
	Whole Building	Minimum efficacy 100 Lm/cW
Lighting Controls	Manual Switching only	
Metering	No BMS or separate end use metering	
Electric Power Factor	Less than 0.9	
Renewables	None	

Revision	Date	Details
-	26/03/20	Draft Design Issue

Notes

I confirm the building will be built in line with the above specification. Any deviation from the above could affect compliance with Part L

Print Name & Signature		Company		Date	