



SBEM Calculations Information Requirement

1. Drawings, showing dimensions in DWG or DXF

- Floor plans
- Elevations
- Sections

2. Site Plan

3. Opening schedules and glazing specifications including performance characteristics (Solar and Thermal characteristics) for all windows, curtain walling and roof lights.

4. Door details including U-Values (Glazing specifications if any glass doors)

5. Construction details of all thermal elements in order to calculate the U-Values

6. Target Pressure Test/Air Permeability Value

7. Heating and cooling details

- Schematics if available
- Model and manufacturer details of all plant
- Heating and cooling efficiencies
- Associated controls

8. Ventilation Details

- Natural or Mechanical. If Mechanical;
 - Ventilation schematics if available
 - Model and manufacturer of central/local plant
 - Air flow rates and specific fan powers of the systems
 - Plans marked with locations of supply and extract

9. Domestic hot water details

- Model and manufacturer of plant
- Cylinder volume and manufacturer
- Secondary circulation?
- If more than one system, plans marked with locations

10. Lighting

- Drawings showing lighting type by area
- Lighting power rating (Lamp Lumens per Circuit Watt) or
- Lighting lux levels

11. Lighting control details and locations

- Passive infrared
- Photoelectric
- Manual switching

12. Renewables

- Type and quantity of any renewables

13. Metering and Monitoring

- BMS System?
- Separate end use metering to heating?
- Separate end use metering to lighting?
- Site Power Factor: <0.9 // 0.9 to 0.95 // >0.95