

Building Compliance  
Design & Testing

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DESK-BASED

# SBEM Calculations Checklist

New Build



ATSPACE

DELIVERING BEYOND COMPLIANCE

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## New Build



This checklist has been carefully crafted to obtain the necessary information for performing your required services. Failure to supply this information to your energy assessor may result in time delays. Please take the time to read each required element and watch any helpful videos, along with using any download links to assist in your project.

As always, we are here to Deliver Beyond Compliance.



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## 1. Building regulations

What regulation is being adhered to: 2013 or 2022. This is important for us to know as the calculation will need to be redone and recharged if this information isn't correct.

## 2. Address

We need to know the location of the building to apply the correct regional climate data to the assessment.

## 3. Floor plans

We use these to determine the size and internal layout of the building.

## 4. Elevations

We use these to measure glazing and doors.

## 5. Sections

We use these to measure internal floor to ceiling heights, and ensure we model the shape of the building correctly where there are vaulted ceilings or other complex aspects.

## 6. Site plan

We use this to determine the orientation of the building and if there is any shelter factor provided by surrounding buildings

## 7. Build specification for all heat loss areas

This includes build-ups for all wall, floor and roof types which have heated internal space on one side, and unheated space on the other side. We use these to calculate the fabric heat loss of the building.





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#### 8. Doors and glazing

Details, including U-values and G-values (if known) of doors and glazing, including any glazed doors and roof lights. We use these to calculate the solar gains and fabric heat loss of the building.

#### 9. Ventilation

Type of ventilation system including make and model for system 3 or system 4 as soon as known. The type and efficiency of ventilation system plays a role in carbon emissions. By providing us with the make and model, we can ensure that the most accurate data is used.

#### 10. Heating

Type of heating system including control system, emitter type/s, and make and model of heater and hot water cylinder (if applicable) as soon as known. The type and efficiency of heating system plays a significant role in carbon emissions. By providing us with the make and model, we can ensure that the most accurate data is used.

#### 11. Light fittings

Number of light fittings, including wattage and capacity (lm) of bulbs used. Using low-energy lighting throughout plays a significant role in reducing CO<sub>2</sub> emissions.

#### 12. Any secondary heating systems (such as wood burning stove)

Having a secondary system can take some of the burden off the main heating system. If the fuel used for the secondary heating system has a lower carbon intensity, then this can be beneficial to an SBEM assessment.





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### 13. Renewables

Details of any renewable technologies including orientation and output (kWp) of any solar PV panels. We can add solar PV and other renewable technologies into an SBEM assessment which will benefit the assessment by offsetting CO2 emissions, and boosting the EPC score.

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#### Any queries?

For any questions regarding your SBEM calculation, please contact a member of our team by calling [0345 6465 454](tel:03456465454) or emailing [sales@atspaceltd.com](mailto:sales@atspaceltd.com).



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### Free downloads

[Part L](#)



### Helpful videos

[SBEM walk-through](#)

[What is an SBEM calculation?](#)


[What is an SBEM report?](#)

[Why do I need an SBEM?](#)

[What is SBEM used for?](#)

[How to reduce SBEM costs](#)

[More bonus videos](#)



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Just our friendly team.

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