SAP New Build Calculations Checklist

1. Building Regulations

What version of Part L building regulations are applicable for this project – i.e. when was the building notice submitted?

2. Address

We need to know the location to assign the correct regional weather data.

3. Site Plan

Used to determine the dwelling location, orientation and sheltering.

4. Floor Plans

Used to determine the size and layout of the dwelling.

5. Sections

Used to measure floor to ceiling heights and the volume of the dwelling.

6. Elevations

Used to measure window and door sizes and orientation.

7. Proposed Fabric Specification

The construction method and insulation types/thicknesses for all heat loss elements – floors, walls and roofs. Used to calculate the fabric performance of the dwelling.

8. Proposed Glazing and Doors Specification

U Values and G Values of the proposed glazing and doors. Used to calculate solar gain and fabric performance of the dwelling.

9. Space Heating System(s)

Type of space heating system proposed (i.e. Air Source Heat Pump). As well as proposed emitters and controls. If the specific model is known, this benefits the calculations as more accurate data can be used.

Secondary heating systems (such as wood burning stoves) can also affect the SAP calculations.

10. Domestic Hot Water

Proposed hot water for the dwelling (i.e. Cylinder fed by the heat pump). If the specific model is known, this benefits the calculations as more accurate data can be used.

11. Ventilation

Proposed ventilation system (i.e. intermittent extractor fans, dMEV fans or MVHR). If the specific model is known, this benefits the calculations as more accurate data can be used.

12. Lighting

Number of light fittings, including their wattage and capacity (lm).

13. Renewable Technology

Details of any renewable technology (i.e. Solar PV panels). These greatly affect the SAP calculations and generally, some form of renewable technology will be required for compliance.

What if I don't have all this information?

For the majority of projects, not all of this information may be known at the early design stages. Energytest understand this and are here to help. Chat with the office and we can help find a solution for you.

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