

SAP CHECKLIST

This checklist is for residential properties which require SAP calculations to show compliance with Part L1A

If you have any questions about filling in this form please don't hesitate to contact us on:

☎ 01892 831 608

✉ info@lfbuildingefficiency.co.uk

SAP Calculation requirements

To enable us to complete your SAP Calculation, please email us:

- 1) A completed SAP Checklist
- 2) Building floor plans to scale, with the usage of each room clearly labelled
- 3) Elevations and sections to show doors, windows and storey heights
- 4) Site plan, or information regarding the orientation of the building

For us to be able to produce the most accurate calculations for your project, please fill in all areas of this checklist. If further information can be located from the plans, make a note of the file name, or page number for easy reference. We will assume your building needs to fully comply with Part L1A of the current Building Regulations. If you do not need to meet emission targets, please let us know (if you are unsure, consult your Building Control Department.)

Project details

Site Address for which the SAP is required:

Post Code

Planned date of build completion:

No. of dwellings requiring a SAP

Who should we contact if there are any queries about the SAP Calculation?

Name:

Telephone:

Email:

Who should we send the reports to? (we only send reports via email unless specified otherwise)

Name:

Email:

Address:

Post Code

Predicted Energy Assessment required?
(Required when selling "off plan")

1. Floor Constructions: (please provide U-values for floors)

| | U-value | Location |
|--|---|----------------------|
| Ground floor | <input type="text"/> W/m ² K | <input type="text"/> |
| Floors above a garage | <input type="text"/> W/m ² K | <input type="text"/> |
| Floors above a commercial unit (such as an office or takeaway) | <input type="text"/> W/m ² K | <input type="text"/> |
| Floors above an unheated basement | <input type="text"/> W/m ² K | <input type="text"/> |

2. Wall Constructions: (please provide U-values for walls)

| | U-value | Location |
|---|---|----------------------|
| External walls | <input type="text"/> W/m ² K | <input type="text"/> |
| Adjoining a garage | <input type="text"/> W/m ² K | <input type="text"/> |
| Adjoining a commercial unit (such as an office or takeaway) | <input type="text"/> W/m ² K | <input type="text"/> |
| Adjoining unheated corridors or stairways (in a block of flats) | <input type="text"/> W/m ² K | <input type="text"/> |
| Adjoining underground (a basement or supporting wall) | <input type="text"/> W/m ² K | <input type="text"/> |

3. Roof Constructions: (please provide U-values for roofs)

| | U-value | Location |
|---|---|----------------------|
| Roof with insulation at ceiling level | <input type="text"/> W/m ² K | <input type="text"/> |
| Roof with insulation in slope | <input type="text"/> W/m ² K | <input type="text"/> |
| A balcony on top of a lower floor | <input type="text"/> W/m ² K | <input type="text"/> |
| Ceiling of basement (if not under the main house) | <input type="text"/> W/m ² K | <input type="text"/> |

4. Glazing and Rooflights: (please tick one box from each row)

| | | Glazing | | Rooflights | |
|---|---------------------------------|---|---|---|----|
| Enter the U-value of the units, including frames. If glazing specification is mixed, please specify. | | <input type="text"/> W/m ² K | <input type="text"/> W/m ² K | <input type="text"/> W/m ² K | |
| Glass: | SINGLE <input type="checkbox"/> | DOUBLE <input type="checkbox"/> | TRIPLE <input type="checkbox"/> | | |
| Frame: | PVCu <input type="checkbox"/> | TIMBER <input type="checkbox"/> | METAL <input type="checkbox"/> | | |
| Low-E Coating: | YES <input type="checkbox"/> | NO <input type="checkbox"/> | THERMAL BREAK <input type="checkbox"/> | | mm |
| Double glazed air gap: | 6mm <input type="checkbox"/> | 12mm <input type="checkbox"/> | 16mm and greater <input type="checkbox"/> | | |
| Double glazed gas type: | AIR <input type="checkbox"/> | ARGON <input type="checkbox"/> | KRYPTON <input type="checkbox"/> | | |

5. External Doors: (please tick all that are applicable)

Enter the U-value of the units, including frames.

Doors

W/m²K

You do not need to include patio doors here as these should be included in the glazing section.

Are external doors: SOLID PARTIALLY GLAZED; how much is glazed (%) %
Material: TIMBER UPVC METAL THERMAL BREAK mm

6. Air Leakage Test:

You may be required to have an air leakage test carried out at time of completion. In order to produce the initial SAP calculations we are required to enter a predicted figure. If you leave the box empty we shall assume a default figure of 10, which is the maximum allowed. Enter your predicted air leakage test result m³/hm² @ 50pa.

Please contact the Customer Support team if you require further explanation, or visit our website or request a quotation from our Air Leakage Team.

7. Ventilation:

Total number of extraction fans (proceed to Q8)

OR

If you are installing a whole house mechanical ventilation system, we shall require the following information:

Manufacturer: Product Name:

Is there Heat Recovery YES NO

Will the ducting be: RIGID (recommended) FLEXI

What is the Specific Fan Power W/l/s What is the Heat Exchange Efficiency %

8. Main Heating System: (please tick all that are applicable)

Emitters: RADIATORS UNDERFLOOR (screed) UNDERFLOOR (Timber)
Controls: COMPENSATOR or OPTMISER PROGRAMMER THERMOSTATIC R/V
ROOM STAT
ZONE CONTROL SYSTEM (required on properties with a floor area greater than 150m²)

Please select ONE of the following three options as the main heat source:

Boiler Make: Model: SEDBUK efficiency %
Fuel: MAINS GAS BOTTLED GAS OIL LPG ELECTRIC BIOMASS

Heat Pump Make: Model: SEDBUK efficiency %
Source: Ground to water Air to water Water to water Air to air
Fuel: Electric Mains Gas

Electric Panel Heaters Storage Heaters (Economy 7)

Note: it is much more difficult to meet current emission targets with panel or storage heaters than other heating systems. This is due to the high penalties placed on the production and transportation of electricity under SAP methodology.

9. Secondary heating :

If no secondary heating is present, SAP will assume portable electric heaters are to be used.

Wood Logs: Type: HETAS Approved open fire in grate HETAS Approved close log burner
Gas: Flue: Connected to flue Connected to chimney Flueless
Efficiency of gas system %
Fire: Is the fire open fronted? Yes No

10. Hot Water :

Provided by main heating system? Yes No Provided by secondary heating system? Yes No
Provided by a community system? Yes No
If a hot water cylinder is present: Capacity litres Insulation thickness mm
Fuel: MAINS GAS BOTTLED GAS OIL LPG ELECTRIC BIOMASS

11. Renewables :

Solar panels: Area of panels: m² Degree Pitch: ° Orientation:
Is the hot water cylinder connected to the heating Separate storage cylinder litres
If known please provide the collector efficiency % and the heat loss efficiency %
Photovoltaic: Installed Peak Power kWp Orientation
Micro Turbines: Total Number: Diameter: cm Distance from hub to ground m
Offsite: Please provide separate details of the total kW/h/yr produced and how many properties share the system

12. Lighting :

Internal Lighting

Part LIA states that a quarter of all internal light fittings must be low-energy exclusive, OR there must be one low energy light fitting per every 25m² of useful floorspace, whichever is the greater. Do not include lighting details for unheated areas, such as garages, conservatories and attics in your answers.

What is the total number of low energy light fittings in the property?

What is the total number of standard light fittings in the property?

External Lighting

All external lighting to the dwelling will be energy saving Yes No

Security lights will use a PIR sensor and run at 150 watts maximum Yes No

(Answering 'No' to BOTH of these questions will show a Fail in section 2.8 of your end report)

13. Accredited Construction :

Will the building be constructed to accredited details? Yes No

14. Declaration :

Completed by:

Date: