

SAP CONVERSION CALCULATION CHECKLIST

Checklist for residential properties which require SAP calculations to show an improvement against Part L1B.

To provide a SAP calculation we require the following:

1. A completed SAP Calculation Checklist
2. Scale drawings to show floor plans for each floor
3. Scale drawings to show elevations, sections and storey heights
4. Scale drawings showing (or schedule for) all opening, doors, windows and roof lights
5. Site plan to show orientation of building or North point
6. Full specification of construction materials or U-values.

CONTENT AND PROJECT DETAILS

Dwelling Details	Client Name (to appear on SAP)	<input style="width: 100%;" type="text"/>
	Address	<input style="width: 100%;" type="text"/>
		<input style="width: 100%;" type="text"/>
SAP Calculation Queries	Contact Name	<input style="width: 100%;" type="text"/>
	Telephone Number	<input style="width: 100%;" type="text"/>
	Email Address	<input style="width: 100%;" type="text"/>
Where should we send the SAP Calculation	Contact Name	<input style="width: 100%;" type="text"/>
	Email	<input style="width: 100%;" type="text"/>
	Building Control Office(Optional)	<input style="width: 100%;" type="text"/>
	Contact Name	<input style="width: 100%;" type="text"/>
	Telephone Number	<input style="width: 100%;" type="text"/>

To produce a SAP calculation, we require the U-Value of each main element listed below. If it is known please provide it in the appropriate box, if not we will have to calculate it and require a breakdown of each element to do this. Please indicate below. If you require us to calculate a U-Value, we charge £12 + VAT for each Calculation that needs to be undertaken.

Example of information we require to produce a U-Value for a Main Wall:

- External Facing Brick: 100mm
- Cavity : 25 mm
- Kooltherm K8 Insulation: 75mm
- Celcon Solar Block: 100mm
- Plaster Board: 125mm
- SKIM: 3mm

CONSTRUCTION DETAILS

Have Accredited Construction details been adopted?

Yes

No

1. Floor Construction:

	Yes	No	U-Value (W/m ² K)	
Ground Floor	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Floor above a garage	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Floor above an unheated area	Yes	No	U-Value (W/m ² K)	<input type="text"/>

2. Wall Construction:

	Yes	No	U-Value (W/m ² K)	
Main external wall	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Wall adjoining a garage	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Wall adjoining a roof space	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Wall below ground level	Yes	No	U-Value (W/m ² K)	<input type="text"/>

3. Roof/Ceiling Construction:

	Yes	No	U-Value (W/m ² K)	
Main roof	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Flat roof or balcony	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Sloping ceiling to top floor	Yes	No	U-Value (W/m ² K)	<input type="text"/>
flat ceiling to top floor	Yes	No	U-Value (W/m ² K)	<input type="text"/>
Other Roofs (porch, bay)	Yes	No	U-Value (W/m ² K)	<input type="text"/>

4. Windows & Roof Lights

Window:	U-Value (W/m ² K)	<input type="text"/>		
Roof lights:	U-Value (W/m ² K)	<input type="text"/>		
Glass:	Single	Double	Triple	
Frame:	UPVC	Timber	Metal	
Air Gap:	12mm	16mm	Other	
Type :	Air Filled	Argon Filled	Krypton Filled	
Low-E Coat:	Yes	No		
	Hard Coat	Soft coat		

5. External Doors

Door:	U-Value (W/m ² K)	<input type="text"/>		
Door Other:	U-Value (W/m ² K)	<input type="text"/>		
Type:	Solid	Half Glazed	Fully Glazed	
Material:	Timber	UPVC	Metal	

HEATING AND WATER

6. Main Heating System

Emitters:	Radiators	Underfloor (Screed)	Underfloor (Timber)
Controls	Programmer	Roomstat	Trv's

Time and Temperature Zone Control
(Min requirement for properties with a floor area of or greater than 150 m²)

Boiler Yes No

 Combination Condensing Regular CPSU

Make Model

SEDBUK Efficiency

Fuel: Gas(mains) Gas (Bottled) LPG Oil

 Electric Biomass Solid

Heat Pump Yes No

Make Model

 Ground to Water Air to Water Water to Water Air to Air

Fuel: Electric Mains Gas

Electric Yes No

Make

 Pannal Heaters Storage Heaters

7. SECONDARY HEATING SYSTEM

Room Heater: Yes No

Type: Open Closed

Make: Efficiency HETAS Approved

Fuel: Gas Oil LPG Electric

 Biomass Solid

Flue: Flue Connected to Chimney Flueless

8. Water Heating

From main heating system: Yes No

From secondary heating system: Yes No

From community heating system: Yes No (if yes please provide full details)

Storage tank: Yes No

Size: 110 160 210

Insulation Type and Thickness: Jacket Spray Foam

Water heater: Type Fuel

9. Ventilation And Lighting

Ventilation

No. of Chimneys No. of Extract Vents

Whole House Mechanical Ventilation System Yes No (If yes please provide full details)

Heat Recovery: Yes No (If yes please provide full details)

Lighting

Total No. of Light Fittings No. of Low Energy Light Fittings
(Min. requirement 30%)



PV AND ALTERNATIVE TECHNOLOGY

10. Renewable Technology

Solar Panels: Yes No

Area of Panels (m²) Degree Pitch Orientation

Photovoltaic: Yes No

Installed Peak Power (kWp) Orientation

Micro Turbines: Yes No

Total No. Diameter (cm)

Distance from hub to ground

Offsite: Please provide details of the total kW/h/yr produced and how many properties share the system.

In addition to your SAP calculation, Elite Energy can also provide a Code for Sustainable Homes assessment by their fully qualified and accredited assessors: Contact us for more details and a quote.

The Code for Sustainable Homes (CSH) is an assessment and rating system for new homes. It aims to improve the overall sustainability of new homes by establishing a single national framework within which the home building industry can design and construct homes to higher environmental standards.

