

## SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 1)

Checklist for residential properties which require SAP calculations to comply with Part L1A.

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)

Address

#### SAP Calculation Queries

Contact Name

Telephone Number

Email Address

#### Where should we send the SAP Calculation

Contact Name

Email

Building Control Office(Optional)

Contact Name

Telephone Number

## SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 2)

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:

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

#### 2. Wall Construction:

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

#### 3. Roof/Ceiling Construction:

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

# SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 3)

## 4. Windows & Roof Lights

Window:	U-Value (W/m <sup>2</sup> K)	<input type="text"/>		
Roof lights:	U-Value (W/m <sup>2</sup> 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 <sup>2</sup> K)	<input type="text"/>		
Door Other:	U-Value (W/m <sup>2</sup> 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 m<sup>2</sup>)

# SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 4)

**Boiler**

Yes	No		
Combination	Condensing	Regular	CPSU
Make <input type="text"/>	Model <input type="text"/>		
SEDBUK <input type="text"/>	Efficiency <input type="text"/>		
Fuel:	Gas(mains)	Gas (Bottled)	LPG
	Electric	Biomass	Solid
			Oil

**Heat Pump**

Yes	No		
Make <input type="text"/>	Model <input type="text"/>		
	Ground to Water	Air to Water	Water to Water
			Air to Air
Fuel:	Electric	Mains Gas	
<b>Electric</b>	Yes	No	
Make <input type="text"/>			
	Pannal Heaters	Storage Heaters	

## 7. SECONDARY HEATING SYSTEM

Room Heater:	Yes	No	
Type:	Open	Closed	
Make: <input type="text"/>	Efficiency <input type="text"/>		HETAS Approved
Fuel:	Gas	Oil	LPG
	Biomass	Solid	Electric
Flue:	Flue	Connected to Chimney	Flueless

## SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 5)

### 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%)



## SAP ASSESSMENT/ SAP RATING/ SAP CALCULATION CHECKLIST (Page 6)

Air Pressure Test:

As Designed

As Built

## PV AND ALTERNATIVE TECHNOLOGY

## 10. Renewable Technology

Solar Panels: Yes No

Area of Panels (m<sup>2</sup>)

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.

