

Ms. Bolton,
Swansea
South Wales

10/1/16

Dear Ms. Bolton,

Re: SAP Calculations and Energy Use Survey and recommendations for your new conservatory to open directly from the house.

I have completed my work and produced two calculations.

- 1) SAP Calculations are based on a 'Lean Too' Design conservatory attached to the back of your lounge with a projection outwards of 3 metres and a width of 7 metres. The total area of the conservatory is 21 M2. You will have the option of either a glass or polycarbonate roof; the latter will be the least expensive option.

The SAP emission calculations that I have undertaken show that if the conservatory walls Floor and windows are built according to the specification for a home extension then the structure will satisfy the Building control requirements to open up the conservatory into the house. However it is best to ensure that there is a good margin of safety therefore I recommend you increase the loft insulation to a minimum of 200mm. You should be able to get a grant for this work which would normally be undertaken free of charge by the energy suppliers. If you have to pay then the cost is likely to be around £300.

This measure alone will be more than adequate to reduce the emissions to enable you to add the conservatory to your living area, and it will significantly reduce your energy bill at a relatively low capital cost. Full details / specifications are shown in my SAPP calculations.

- 2) Energy use survey I have also undertaken detailed calculations to provide you with full details and costs of the effect of various Energy reduction measures. This analysis shows the effectiveness of each of the measures in the right hand column headed; Value - watts saved for each pound £ spent. The lower figure is the best value for money.

You can see that the most effective use of your money is to fit a new energy-efficient boiler, timer and thermostat control but I understand that this may be too expensive for you to install at present. The least expensive measures that give good value for money are :a) increase the loft insulation , b) draught-stripping and installing an internal high insulation panel to the back and front doors, c) Increasing the insulation on the hot water tank etc. Full details of all the measures is shown in the attached.

Please call me if you have any questions on 07801179883 and in due course let me know The name and telephone no: of the person in your local Building Control Department.

Thank you for this opportunity to be of service.

Kind regards

David Anderson