



[www.suncatchersolar.com](http://www.suncatchersolar.com)

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## **Passive Solar Specifications Consulting Service**

Thank you for your interest in building an environmentally friendly home with passive solar design. Passive solar design is the most cost effective way to use the sun's energy since there are very few, if any, additional construction costs. The method uses intelligent decisions at the building design stage to make effective use of the sunshine entering the home. Houses are oriented with a south-facing wall of windows that maximize solar gain during the winter and have suitable overhangs to minimize the solar gain in the summer. If the south window area is large in proportion to the floor area of the house, a thermal mass such as a concrete floor or stone wall can be used to absorb some of the heat during the day and radiate the heat at night. This design technique incorporates passive solar heating, passive cooling and natural day lighting in a unified design that reduces energy needs for heating in the winter, cooling in the summer and artificial lighting.

Basic passive solar consulting package

\$500.00

This package includes:

- Building Orientation – orienting your building on the site to maximize solar gain and highlight special features such as views or entrances.
- Window sizes and thermal mass – suggested window sizes for south, east, west and north walls and the recommended amount and type of thermal mass required for the suggested percentage of south glass
- Window specifications – style, glazing and coatings
- Overhang length – length of roof overhang to keep the home cool in the summer