

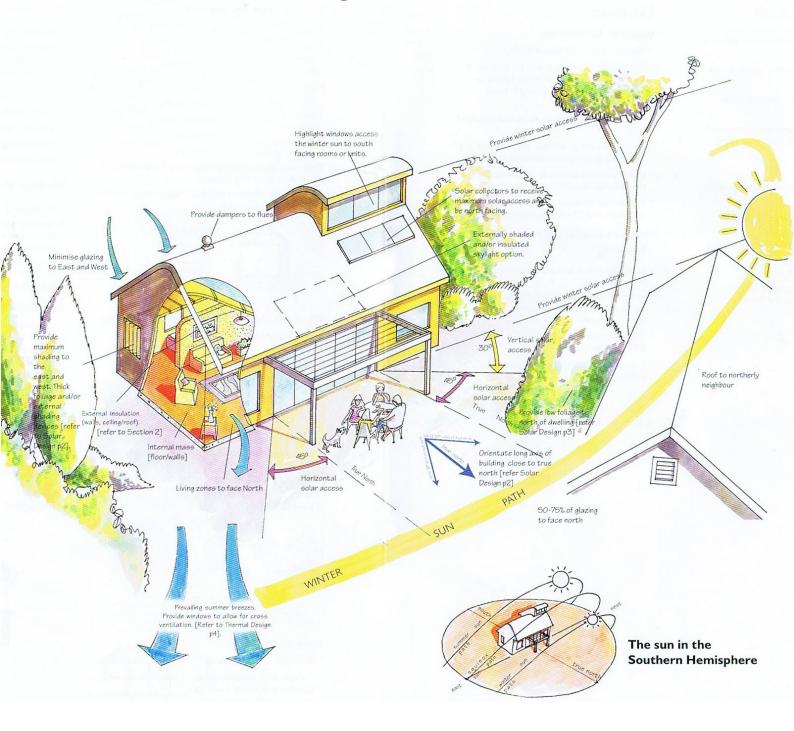
THE NINE QUESTIONS

you must discuss with a building designer before you sign a letter of engagement.



KEY FEATURES OF AN "ENERGY SMART" HOME

A five star energy rating will be easier to achieve with the incorporation of slab-on-ground construction and insulation to external walls and ceiling/roof.





FLOOR PLAN / UNIVERSAL DESIGN

Have you considered the benefits of incorporating aspects of the guidelines for *Universal Design for Housing* into planning your home?

These nationally agreed guidelines were created to provide a consistent, inexpensive and practical set of recommendations to make houses safer, more comfortable and easier to access for people of all ages and abilities. The Silver, Gold and Platinum ratings represent a trusted, quality seal of approval that gives you confidence that your house has been designed and built with livability in mind. These standards can be used to ensure your building is fit for purpose for it's whole life. These days that could be up to 50 years or more. It may not be necessary to fulfill all of the criteria contained in the standard, but you can be assured that the information, dimensions, and suggestions contained in the guidelines are the most up to date thinking on what constitutes a home of the future.



THERMAL MASS

Do you have any thermal mass inside your building?

3

Thermal mass is the term used to describe a material that has the capacity to absorb and store heat energy. In NSW, thermal mass is necessary in order to act as a 'heat bank' in winter and in summer to achieve comfort in the home. In winter, mass in walls and/or floors absorbs radiated heat from the sun and reradiates it into the room at night. So maximize thermal mass in house construction to north facing rooms. A concrete slab on the ground offers a simple way to incorporate thermal mass for solar gain and internal masonry walls can also offer substantial thermal mass performance. A balance of thermal mass in the walls and floors is desirable.

INSULATION

Has your designer specified and optimized the choice, quality, and efficiency of the insulation systems to be built into your new home?

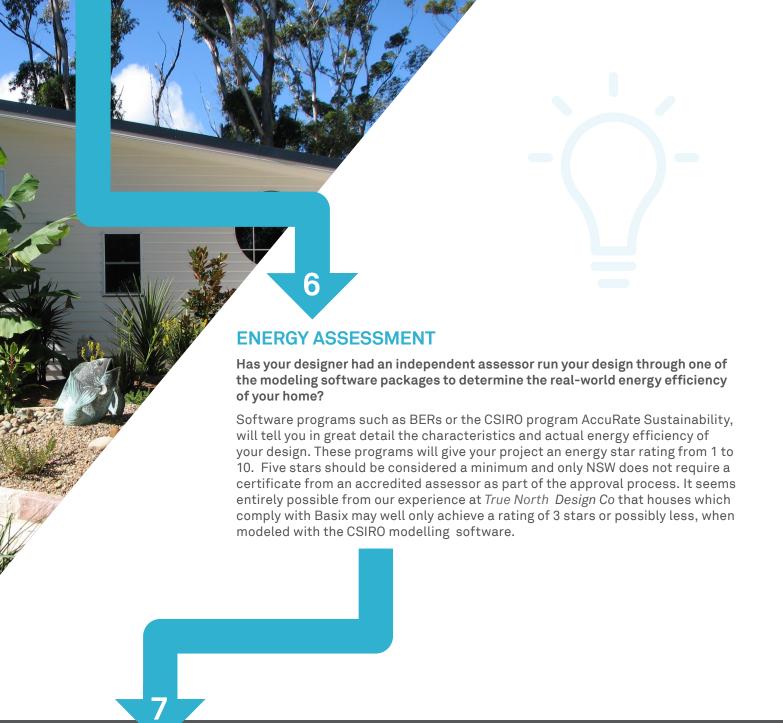
There are two types of insulation. Bulk insulation such as cellulose, polystyrene foam, wool, glass fibre and rock wool as well as reflective insulation such as Enviroseal, Concertina Foil Batts, Aircell or Homewrap. The "R" value or thermal resistance measures the ability of a material to resist the flow of heat through that material. Insulation, and it's careful installation, is one of the most important and least expensive components in a house.

If your designer chooses the appropriate product and maximizes the R-value of the product, this will go a long way to ensuring maximum thermal performance and year-round comfort in your home. It is vitally important that these products are installed and certified by licensed installers to the schedule or details on your plan or energy-rating certificate. Remember it is also important to insulate floors as they can feel cold underfoot and allow considerable heat loss. Seals on all external doors should be mandatory to help in keeping the airtight integrity of your house and its insulation intact.









BUILDING MATERIALS

Have you considered all of the options that are available to you for when choosing the materials to construct your home?

The choices you make at the design stage will have a major impact on the cost, efficiency and long-term durability and maintenance of your home. Make sure the materials are energy efficient and ecologically friendly. Many imported materials are of inferior quality and many are sourced using unsustainable practices. It is common in parts of Indonesia to see islands where all of the large rainforest trees have been completely removed by international logging companies and nothing large enough to build a traditional long boat is left standing.

Building costs can be contained, by using locally produced goods and materials where possible, in smart and innovative ways. Concrete, using recycled steel and fly ash in production, is one example of companies trying to be environmentally smarter. Traditional timber flooring can be up to 5 times the cost per m2 as composite and floating floors. These are all decisions your designer should help you with. There are many choices now that allow you to use non-toxic and non-allergenic materials in the construction process. Be it low VOC paints and Low VOC melamine in cupboards and joinery or water based glues and floor finishes. These can have a huge impact in reducing the possibility of you having 'toxic house syndrome.'



PROJECT BUDGET vs ACTUAL This is the last, but by no means the least, important consideration in the True North Design 9 Questions to Discuss with your Building Designer. Do you have any guarantee from your designer or architect that the overall project cost will be within the parameters you discussed when you first approached them with your vision or your brief? A full 50 % of buildings designed by architects are never built and nearly 70% of buildings cost well over the initial estimate. Over the years we've had a number of clients come to our office with cost blowouts on their project plans. Our advice would be to talk with your design professional and ask them to modify the design to fit the agreed budget. **Contact True North Design Co today** Tony 0414 442 119 | Lucy 0418 407 420 P. 02 4457 3384 www.truenorthco.com.au