

Environmental.

www.arkit.com.au
www.arkit.co.nz

ARKit extends the environmental commitment to the entire building system.

SAFE

Use of low VOC (Volatile Organic Compounds) in all materials, adhesives and finishes.

NATURAL VENTILATION

ARKit buildings maximise nature's own ventilation system by strategic placement of window openings and calculated sizes. Natural ventilation will save you energy by removing heat from the building without reliance on mechanical air conditioning.

WATER

Roofing is designed to capture and drain rainwater to a storage above ground, underground, or concealed within the subfloor; a large range of different rain water tanks can be provided for easy reticulation within your ARKit or garden.

ALTERNATIVE ENERGY

Solar panels can easily be installed as a complete 'off the grid' electrical capacity, or a hybrid system can create a give your ARKit building power flexibility.

TIMBERS

ARKit buildings use either plantation or sustainable managed and forested timbers. The source forests can thus be grown, harvested and regrown in perpetuity to provide an ongoing supply of timber.

QUALITY AND EFFICIENCY

The factory assembly of all ARKit building components provides greater quality assurance compared to conventional building systems. Pre-fabrication allows short construction times with minimal wastage of materials resulting in a highly cost effective building.

ENERGY RATING

From July 2005, the 5 Star Energy Standard came into effect in Victoria, which requires a 5 Star energy rating for building fabric PLUS water conservation measures AND a rain water tank OR solar hot water system. This is easily applied to most residential situations and typically requires inclusions such as;

STANDARD PERFORMANCE	STANDARD ON FOR ALL ARKIT HOMES
Bulk insulation and reflective foil in walls and ceilings	R1.0 insulated foil and R1.5 woollen batts, with additional R1.0 to sub floor area. Refer to Flexible brochure for details
House orientation and window size	Subject to individual site assessment
High performance glazing	Pilkington 'Comfort Plus - Neutral' glass as standard for the ARKit range. Insulated glass units (double glazing) is offered as an option.
Draught seals to doors	On all doors and windows

Each house will be individually assessed using sophisticated software tools by an independent accredited Energy Assessor, with a 5 star energy efficiency rating certificate required prior to commencement of construction.

References
<http://www.5starhouse.vic.gov.au/>
http://www.timber.org.au/resources/Rvalue%20Edition%202012_1_2.pdf

ARKit provides an extremely comfortable habitation that does not compromise the natural environment.