

MASS & INSULATION

- 1 Highly insulated external walls. Insulated internal walls surrounds living area, also creating sound barrier between living and sleeping quarters
- 2 Dark tiled/ polished concrete to absorb winter rays over waffle slab providing a thermal bank in winter and heat sink in summer
- 3 Option to upgrade to 10 star Add reversed (& recycled) brick veneer ext wall R3.5 High Density Foam Insulation battened externally. Provides thermal lag & further stabilises internal temperature. Recycled brick provides thermal mass to reduce operational energy without a big compromise in embodied energy from virgin stock

Big Little

LIGHT & VENTILATION

- 4 Extra height in living area provides gr through high windows and a sense of
- 5 Northern eaves sized to shade in sum sun, consisting of fixed photovoltaic p grapevines for extra summer shading rear alfresco. Pergola uses tensioned shading from structure
- 6 Windows & doors aligned in direction breezes (sth to nth in Melbourne) to a cooling & effective night purging
- 7 Washing line placed to pre-cool the k house
- 8 Clerestory windows provide secure ventilation & night purging strategies as well as bringing sun deep into living space

Positive Footprints 9 Star Series

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	FOOD &WATER
eater solar access f space	9 Potential for north & west food producing gardens & food forrest with great solar access, thus a reduction in food miles. Vegetable/ herb garden bed easily accessible from
mer, and let in winter banels and deciduous	kitchen
under the verandah & rods to minimise winter	10 Roof pitched in one direction to allow for easy water collection to tanks.
ns of prevailing summer maximise passive	11 Min. 5k litre rain water tank, plumbing captures water to flush toilets, run cold laundry tap and exterior garden taps
preezes prior to entry to	12 Grey water kept separate from sewer for later pickup. As option, grey water collected from bath, shower and laund can be directed sub-surface to fruit trees
entilation & night	13 Rain water from tank can be made to drip-irrigate any garden beds



LOW BILLS AND ENERGY POSITIVE

- 14 Integrated photovoltaic panels, as part of the fixed northern shade reduces extra materials
- 15 Wet areas are grouped to minimise plumbing runs and hot water wasted in pipeworks. Redwater valves divert any "cold" hot water from the drain to the water tank
- 16 Location of solar hot water on frame over wet areas to minimise plumbing run heat loss
- 17 Ceiling fans are an energy efficient form of active cooling in all living spaces

At 125m² + garage this single level 9 star house is low in maintenance. The floor plan is adaptable to suit various stages of life



