

BUS TOUR 2024

PASSIVE SOLAR

KARRINYUP

HOME

About Passive Solar Karrinyup Home

Janelle and Nick

We worked with Solar Dwellings to find a block of land that would suit passive solar design principles and their family's lifestyle. The block runs 20 degree off true north allowing for solar heat gain and airflow to be incorporated into the design. Nestled between the Hammersley golf course and Williton Kestrel the heat island effect is reduced, keeping the area cooler during summer.

Our home remains at an ambient and consistent temperature all year round, providing us with a comfortable living environment and reduced energy costs now and into the future.



8.3 STARS - 29.4MJ/m<sup>2</sup>



4 BEDROOMS



2 x BATHROOM



2 x CAR GARAGE



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# SUSTAINABILITY FEATURES



## PASSIVE HEATING/COOLING

Passive solar designed home including

- Cross flow ventilation
- Thermal mass
- External shading
- Pelmet with blinds



## ENERGY EFFICIENCY

- Energy efficient lighting
- Energy efficient appliances
- Draught proofing
- LED Lights throughout
- Natural daylight
- Zoning



## INSULATION

- Anticon under roof
- Ceiling batts
- AirCell Permicav to double brick walls
- R4.1 Ceiling batts to the entire ceiling,
- GDI Thermalift R 1.8 Insulated sectional garage door



## AGEING IN PLACE/LIVABLE HOME

- 870 Wide doors to extension
- Hobless shower recess
- Tapware accessible outside shower recess
- Window openings easily accessible
- Flush thresholds to all external doors

## ACTIVE HEATING/COOLING

Mechanical heating and cooling systems

- Ceiling fans



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