

# ECO HOME BUS TOUR 2022

## LEEDERVILLE LEADING HOME



### About the Leederville Leading Home

Mirelle & Paul


This multi-award winning two storey passive solar, energy and water efficient home is just under 250m<sup>2</sup> and was built to house a family of four.

The home has been designed to maximise north facing location to be as sustainable as possible. The design needed to reduce the reliance on mechanical heating and cooling, be low allergen and low maintenance.

Built using Insulated double brick, a colorbond roof, high levels of insulation and cross ventilation with internal thermal mass and strategically placed openings to ensure an exceptional level of performance.

The home is also water efficient utilising rainwater tanks plumbed into the toilet system and washing machine. A water wise garden features native plants and deciduous planting to the north to maximise winter sunlight. The garden is serviced by a greywater recycling system.



 4 x BED

 2 x BATHROOM

 2 x CAR GARAGE



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# SUSTAINABILITY FEATURES



6.6kW Grid connected



## ENERGY EFFICIENCY

- Heat Pump HWU
- Energy efficient lighting
- Energy efficient appliances
- Draught proofing
- LED Lights throughout
- Natural daylight
- Solar roof vent



## PASSIVE HEATING/COOLING

Passive solar designed home including

- Cross flow ventilation
- Thermal mass
- External shading
- Pelmets with curtains
- Blinds
- Deciduous planting

## ACTIVE HEATING/COOLING

Mechanical heating and cooling systems

- Ceiling fans



## INSULATION

- Anticon under roof
- R4.0 Ceiling batts
- AirCell in exterior brickwork
- Combination of R2.0 batts and sisalation to all timber framed walls
- Insulated garage door

## HEALTHY HOME

- Overhead cupboards to ceiling to reduce dust
- Cross flow ventilation
- Natural light and ventilation



## AGING IN PLACE/LIVABLE HOME

- 870 Wide doors throughout
- Hobless shower recess
- Lever handles to doors
- Showerhead on rail
- Space around toilets for mobility aids
- Tapware accessible outside shower recess
- Wide hallways
- Flush threshold to external areas



## WATER EFFICIENCY

- Rainwater tank 9500L above ground
- Greywater to garden
- Low flow shower heads and tapware



## LANDSCAPING

- Native garden
- Deciduous trees
- Fruit trees
- Drip irrigation





# SUSTAINABILITY FEATURES



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