

# Stars shine on sustainability

— Katie Lee

**T**his Fremantle home ticks all of the sustainable boxes — insulation, ventilation, thermal mass and orientation — making for a comfortable 10-star-rated abode that will serve its owners for the long term.

The home's holistic appeal impressed the GreenSmart judges, who awarded Right Homes the Project Home of the Year title.

"The home has perfect orientation on the site, with extensive use of solar louvres for shading to the north," the judges said, referring to the clever solar pergola design that spans the northern length of the home.

Set at a certain angle, the timber slats allow northern sun into the home in winter that heats up the tiled thermal base and warms the home over time, while protecting the interiors from the harsh summer rays.

Sitting on a rear lot in Fremantle, the home was based on Right Homes' original display, the Jade 909, and other project homes completed by the company, using the same concept of

## HIA Kingspan Insulation GreenSmart Awards 2014

**Winner** GreenSmart Project Home of the Year

**Company** Right Homes

**Phone** 9355 0374

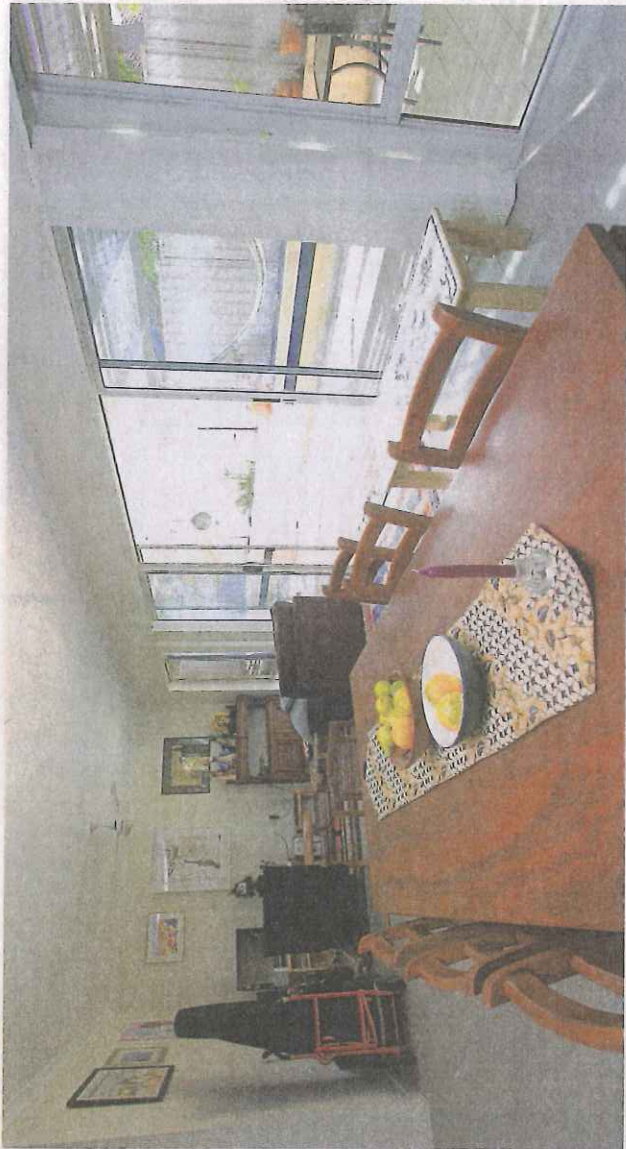
**Location** Fremantle

affordable and repeatable designs.

It also was built with accessibility in mind, including flush thresholds, ramp access, wide doorways and lever handles.

Right Homes bumped up the home's roof insulation and included R1.35 Rockwall Cavity wall insulation between the double-brick construction, which maintains a comfortable interior temperature, as an innovative CSR Odyssey ventilation system keeps the internal air cool and fresh, reducing volatile compounds in the home.

Waterwise fixtures and fittings such as the Caroma Profile 5 toilet, which has a sink built into the top of the cistern, work in conjunction with a 3000L rainwater tank and greywater system to ensure low water use; "the home uses 72 per cent less water than a standard WA home", according to the judges.



A solar pergola design spans the northern length of the home.



Other green features included a Conergy TS300 solar hot-water system with thermal arrestor, self-sealing exhaust fans to minimise air leakage, 3kW PV solar system, low VOC paints, formaldehyde-free cabinetry, renewable bamboo flooring in the bedrooms, LED and T5 fluorescent light fittings and six-star tapware.

