



## A DREAM with obstacles



Building a home for two families in the bush with no road access and no electricity sounds like the type of challenge you could live without. But challenges that are fuelled by dreams tend to be overcome. The McCoullough's had a dream...

### Lived in the country as a child

"I grew up in Alice Springs and always wished my children could enjoy the same simple lifestyle as I did," says Heidi McCoullough. "So when I saw this piece of land 30 minutes from Canberra, I knew that's where I wanted to live. There were a couple of minor issues, though: it was almost 750 acres of bushland and we couldn't afford to build on it."

### Grandparents ready to move at the same time

At first Heidi's husband
Brendan wasn't thrilled with
the idea. "Being a builder I
could imagine the challenges
we would face – technical as
well as financial. But lucky
for us, my parents Peter
and Vicky were considering
moving at the same time.
When we suggested that we
did the project together, they
said we were crazy. But within
48 hours they were ready to
go ahead."

### No infrastructure – need to be self sufficient

"No road, no power, no water – building in the bush is quite different to building in the city. Connecting to the mains power grid would cost almost \$500,000 so we soon realised the need to be self sufficient. Solar and wind power could be installed for a third of the cost and we would achieve ongoing savings. But we'd have to build the most energy efficient home we'd ever built."



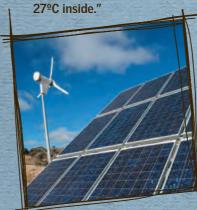


### VELUX skylights make

# PROJECT POSSIBLE

### No need for air conditioning

"We soon realised we'd have to build a home with no need for air conditioning - which is easier said than done when the outside temperature ranges from minus 10°C to plus 40°C. Design and choice of materials were of course crucial. But without VELUX skylights it just couldn't be done. The skylights work like a solar chimney, sucking out hot air when you leave the skylights and a door open. Thanks to VELUX, we've never had to use our ceiling fans. On a 40°C day we have



Without VELUX skylights the McCoullough's would need to double the capacity of the solar and wind energy systems.



#### VELUX skylights save energy – and money

"Another big advantage of the VELUX skylights is that we never have lights on during the day," adds Brendan's dad Peter. "Natural daylight not only saves money, it also increases the general ambience. The VELUX skylights have helped us build a much nicer home and saved us money in the process. Air conditioning would require us to double the size of the solar system - the cost would easily run into six digits. If it wasn't for VELUX there's no way we could have built the house without air conditioning."

#### **Bushfire tested**

"The property is in a bushfire zone so our design had to meet the Australian Standards for construction in bushfire prone areas. Our fire risk was assessed as medium so the building had to meet the **Bushfire Attack Level 12.5** requirements. We decided to go two levels up and design the house to meet the tough BAL 29 requirements. We could even have taken it a step further - as the only skylight I know of, VELUX has passed the extreme BAL 40 test."











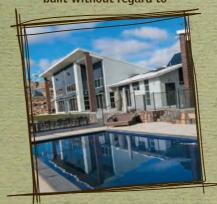




The McCoullough's believe their new home reflects some interesting trends in modern housing...

#### **Energy efficiency**

"Most of the ideas behind our new home will be mainstream in the future," says Peter. "Even today no house can be built without regard to



The pool has room for visitors as well.

energy efficiency. Cooling and heating is just getting too expensive and that's not going to change any time soon. In ACT, where we build the majority of our homes, the minimum requirement for new homes is 6-star energy efficiency."

#### Self sufficiency

"Our house is of course self sufficient to the extreme, but self sufficiency is a strong trend even for more traditional homes today," adds Brendan. "Every other house has a solar system and water tanks – this trend will become even more evident in the future. Access to free energy and free water will be a huge asset in future housing."

#### Three generations

Will three generation/two family living also become more common in the future? To Heidi and Vicky there is no doubt: "living two families separately - under one roof is the ultimate lifestyle. We see each other when we feel like it and help each other when we need it. Grandparents and children get a much closer relationship and parents get a more relaxed lifestyle - there's always someone to look after the children. Sharing facilities like the pool, a large pizza/ bbq area, a tennis court...and having space for hobbies like 4WD and motor bikes adds to the attraction."





dual airlock entry and the openable

skylights.

**VELUX**®

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