

ALTERATIONS & ADDITIONS

Up to \$30,000

FERN CONSTRUCTIONS for No. 85 Thomas Street, Nedlands. Designer: Digby Cullen & Associates. Other finalists: LINTON & ROSE — No. 14 George Street, Alfred Cove; GORDON LOWDEN BUILDER — No. 22 Chalfont Way, Swan View.

\$30,001 — \$60,000

DANIEL CONSTRUCTION PTY LTD for No. 40 Meecham Way, Karrinyup. Designer: Bruce Jackson, B. J. Service Drafting. Other finalists: PATTON BUILDERS — No. 13 Sandgate Street, South Perth; WESTREND HOMES — No. 67 Tate Street, West Leederville; HOWELL & PICKERING — No. 85 Hensman Road, Subiaco.

\$60,001 — \$80,000

SIMMONS CONSTRUCTION for No. 118 Matheson Road, Applecross. Designer: Walter Hunter. Other finalists: SIMMONS CONSTRUCTION — No. 46 Evans Street, Shenton Park; HOWELL & PICKERING — No. 5 Grange Street, Claremont.

\$80,001 and over

No entries.

SYSTEMS & FRAMED HOUSING**KIT HOMES**

ROSS SQUIRE HOMES for Shady Tree Lane, Maida Vale. Designer: Ross Squire.

TRANSPORTABLE HOMES

DURABUILT for "Blackwood Design 120," Truganina Road, Malaga. Designer: Durabuilt.

DESIGN FOR CLIMATE

SOLAR DESIGN CENTRE for No. 112 Bailey Road, Wanneroo. Designer: Garry Baverstock. Other finalists: SOLAR CONSTRUCTION — No. 159 Dalkeith Road, Nedlands; A. & S. BIAGIONI — No. 23 Cygnet Crescent, Dalkeith.

EXCELLENCE IN BRICK AWARD

DANIEL CONSTRUCTION PTY LTD for No. 2 Burwood Street, Nedlands. Designer: Bruce Jackson, B. J. Service Drafting.



THE WEST AUSTRALIAN SATURDAY AUGUST 16 1986

The winners**Big increase in solar housing**

by Dr D.D. CARRUTHERS, UWA. Dept of Architecture — a judge in the design for climate section of the Homes of the Year contest.

PERTH has seen a great increase of interest in solar housing over the last four years. This is shown by the number and quality of this year's entries in the design for climate section.

The use of north windows, of appropriate size and properly summer shaded, the provision of cross ventilation and the use of adequate roof insulation are now much more common, at least in the middle price range. Massive construction, light external colour, heat absorbing floors and properly sealed windows add to the effect.

It is particularly interesting to see these attributes applied to the 200-300sqm houses with the handling of complex floor plans.

This year this aspect of the design is exemplified by Solar Constructions. Not every house is ideal from a climatic design viewpoint, but they tend to be on difficult sites of which maximum use is made.

The established tradition of the simple functional design is shown this year by the Solar Design Centre entry, with its long east-west axis, concentration on north glazing, and massive construction give the house a high comfort potential. The contrast between this house and the houses of Solar Constructions, show that good climatic design is not a strait-jacket on design, but simply another aspect of good design.



This is the climatic design winner in Wanneroo.

Solar designs lauded

GOOD climatic design is not a straight-jacket on house planning, but simply another aspect of good design.

The point is made by Dr D.D. Carruthers, judge in this section, when selecting Solar Design Centre for the important award.

The number and quality of entries this year reflect the increasing interest in solar housing. The winner in Bailey Road, Wanneroo shows the established tradition of the simple functional design.

It has a long east-west axis, concentration on north glazing and massive construction, giving the house a high comfort potential. Its rural setting is the reason for the big country-style kitchen and its huge related pantry for the storage and preparation of food.

For owners Lee and Egon Hefele it provides exactly the comfort they wanted with the temperature indoors hovering between 20C and 24C all year. When it drops below freezing outside and they hear the sprinklers switch on to combat frost in the gardens, it never goes below 18C.

They had found from years of experience that the traditional house in the bush could be too cold in winter and too hot in summer.

By FRANK PLATELL

They were looking for the year round comfort they now have on their Wanneroo "acres."

Their home has big living spaces to the north to exploit the low angle of the winter sun, while bedrooms to the south trap warmth through precisely angled, clerestory windows at the roof ridge.

Only about 50 per cent of the north wall is glass, adequate for a comfortable heat intake in winter. On the south side wings trap the cool breezes in front of bedroom windows in summer to cross-ventilate the whole home.

What looks like a traditional front veranda turns out to be another clever solar detail. The covering is clear acrylic sheeting with louvre panelling above angled to let the sun penetrate 4.5m indoors in winter, while completely excluding it in summer.

Living areas are big and bright with floors absorbing the winter warmth by day to radiate it back into the rooms at night. In the family space it can be a soft, diffused level of light that seems to enliven the angled and lofty area.