



NEW WILKINSON PAVILION

SUBMITTED BY CITY OF MONASH URBAN DESIGN + ARCHITECTURE DEPARTMENT

The project brief required a new or comprehensively upgraded sports pavilion with offices, change room, gymnasium, trainer's room, multi-purpose meeting rooms and amenities to accommodate a football club at Oakleigh, Victoria, all within a \$900,000 budget.

INITIATIVES:

- energy conservation 30 per cent more than minimum requirements and water conservation over 50 per cent above minimum requirements
- 100 per cent of roof catchment area collected in 13,000 litre rainwater storage tanks
- over 90 per cent of the building fabric recyclable or includes recycled materials
- all lighting and mechanical ventilation infrared sensor activated and switches turn off after 15 minutes if not occupied
- waterless urinals and half flush toilets
- east and west facing windows reduced to a minimum area
- two west windows and four east windows fitted with glass bricks
- automated clerestory windows and office stairwell used as a thermal chimney
- continuous flow gas hot water units

PINNACLES INTERPRETIVE CENTRE
SUBMITTED BY WOODHEAD

The client's brief was to design an interpretive centre for the Pinnacles Desert in Nambung National Park, 245 km north of Perth. Woodhead designed a long, low building so as not to intrude on views to the coast.

INITIATIVES:

- hybrid 6.5 kW solar array installed to be used as the primary power source
- treated effluent returned to the ground
- external walls constructed from mass limestone blockwork and stud framed walls with a reflective membrane and bulk fibre insulation of 75 mm minimum thickness
- roofing has 75 mm thick R2.0 heavy duty insulation with reflective facing to the underside of the roof sheeting
- all floors constructed as a concrete slab
- external windows shaded with eave overhangs and deep window reveals to control direct solar gain
- waterless urinals and Biolytix waste water treatment system installed
- bore water the primary water source
- all timber salvaged from southwest WA where land had been cleared for sand mining, new subdivisions and roads



WESTBOURNE SCIENCE CENTRE
SUBMITTED BY NOWARCHITECTURE

The project brief for the original 1981 concrete framed building in Truganina, Victoria, was to integrate passive sustainable systems and building strategies to reduce energy use.

INITIATIVES:

- three thermal chimneys naturally ventilate the building
- pipes immersed at the base of the sub-floor water tank passively cool fresh air as it enters the building via a rebate and grille in the foyer
- louvres in the base of the internal glazed partitions create a displacement ventilation system
- the system allows for secure night purging ventilation and cooling
- windows glazed with tinted green glass
- 31,000 litre water storage tank used for toilet flushing and garden irrigation
- 36 Schott solar photovoltaic panels installed at the top of the thermal chimneys, generating an average of 4.8 kW per hour
- Hydrotherm Greenheat hydronic heating panels with a Rinnai Infinity instantaneous gas hot water system
- recyclable Mondo Futura rubber flooring used throughout the building

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