



**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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