

# Case Study

## Park Lake State School



### Sustainable Design

This multi-purpose resource hall funded by the Federal Government's Building the Education Revolution program was designed with a 'green engineering' philosophy in mind and received a 2012 Regional Commendation in the Australian Institute of Architects (AIA) Awards.



The structural steel used throughout the building was specified with the intention of using recycled steel to minimise the building's carbon footprint while providing the school with a contemporary facility in line with the school's aim to strive to provide students with the best possible learning environment.

The new hall seats over 450 people and includes an additional amenities block and performance hall separated by an open

gathering space. The building structure uses steel plated sandwich panels in a creative and unique way. The benefits of steel fabrication, erection, and sandwich panel meant the building delivery time was reduced.



All steel was treated with the appropriate corrosion protection, including hot dip galvanizing, to ensure longevity to meet the clients brief. Large overhangs provide sun and weather protection while translucent wall cladding and large openings allow natural light to penetrate the main hall and amenities block. The entire building is naturally ventilated and water tanks are included in the design.

### Acknowledgements

**Architect:** Suters Architects

**Civil & Structural Engineering:** Odyssey

**Text:** Australian Steel Institute (Alan Marshall)



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### **Eight Reasons to Choose Hot Dip Galvanizing**

1. No hold ups due to weather – steel can be galvanized in any weather conditions
2. Speed – modular design compatibility to speed up construction
3. Tough coating system – reduces transport damage & minimises on-site repairs
4. Inbuilt durability – minimises in-service damage in the education environment
5. Withstands UV – the surface is immune to damage from the extreme Australian sun
6. Superior corrosion protection – provides initial and lifetime cost savings
7. Aesthetics – natural good looks
8. Sustainable – Zinc and steel are 100% recyclable

**Photography:** Christopher Frederick Jones

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