



# SUSTAINABLE AGGREGATES

SOUTH AUSTRALIA

## BOTTING ST ALBERT PARK Storage facility

### Products

Demolition of an existing office building in February 2013 redeveloped the site as a storage facility for residential caravans and boats etc. The pavement comprised two granular layers in which DPT1 specification PM1/20RG (grading based) was used for a 150mm basecourse overlying a 200mm subbase comprise of PM 2/20rg (grading based) and a 25mm hot mix asphalt wearing course.

### Application

The project was constructed by Royal Park Salvage, a specialist civil contractor associated with demolition, recycling and construction works.

The site covers an area of approximately 5,000m<sup>2</sup> with recycled materials chosen on the basis of close proximity (7kms) to the recycling facility, permitting demolition materials from site to be recycled and new recycled pavement material brought back to site for new construction.

### Environment

Environmental benefits associated with this construction and the adoption of recycled pavement materials were realised in:

- Disposal of demolition waste to the same recycling facility as purchase of new pavement material allowing back loading in deliveries
- Reduced material haul (7kms) compared to the nearest quarry source (22kms)
- 30% reduction in CO<sup>2</sup> emissions in terms of manufacture of recycled pavement materials
- Avoidance of demolition waste to landfill

### Performance

As a recent development, structural performance cannot be assessed. However as a light trafficked pavement on a firm subgrade the pavement is expected to exceed design life.



### CONTACT INFORMATION

For information on this project or any application of recycled materials as granular pavement layers please contact:

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### Founding Partners: