


RECYCLED AGGREGATES AND SAND





ResourceCo is an environmental solutions group with a focus on resource recovery.

ABOUT US

This Product Quality Management Plan outlines the approach adopted by ResourceCo in supplying recycled aggregates and sand to industry. ResourceCo aim to educate our customers on the QA/QC methodologies implemented onsite to provide a high level of confidence to our customers that products are continually manufactured to a consistent and recognised specification.

What We Do

ResourceCo manufactures a wide range of high quality recycled pavement materials, aggregates, sands, bulk fills & asphalt products at its Wingfield (North) and Lonsdale (South) production facilities.

ResourceCo was established in 1991 and is South Australia's largest recycler of construction and demolition waste, producing over 500,000 tonne of recycled aggregate materials per year. Source materials consist of crushed concrete, bricks & asphalt generated from small to large scale demolition projects.

Large projects undertaken for civil clients in recent years include York Civil Adelaide Freight Terminal Expansion, Adelaide Desalination Plant, Techport Australia and Aldi Distribution Centre, with significant quantities of recycled aggregates supplied to the customers satisfaction.

ResourceCo applies strict quality control and production procedures under its accreditations in ISO 9001 (Quality Management System), ISO14001 (Environmental Management) & AS4801 (Occupation Health and Safety Management System).

ResourceCo operates permanent processing facilities at Lonsdale and Wingfield. Incoming product is received as 'clean' concrete containing less than 5% foreign materials and 'unclean' concrete containing mixed quantities of brick, rubble and soil. Oversize concrete consisting of footings and large slabs are pulverised to a suitable size prior to processing.

ResourceCo also operates two state of the art pugmill plants, at Wingfield and Lonsdale, and can supply cement treated and Optimum Moisture Content (OMC) materials on demand from Wingfield.

ResourceCo is also listed as a Global Green Tag™ Gold Standard certified product for its 20 MPa and 32 MPa concrete products produced with recycled aggregate.

All sites licensed by the Environment Protection Authority as 3(3) Waste & Recycling Depots under schedule 1 of the *Environment Protection Act 1993*.

DPTI Certification

ResourceCo has obtained performance based mix design certification from DPTI for its 20mm Class 1 Recycled Material, with recertification in effect since April 2015. This certification was achieved through repeated laboratory testing carried out by both DPTI and ResourceCo's independent NATA approved laboratory, within DPTI R15 specifications.

A copy of Class 1 certification can be supplied upon request. Additional contract specific sampling regimes can also be built in to ensure the products we produce meet individual project specific standards.

ADVANTAGES OF RECYCLED PRODUCTS

COMPETITIVE PRICE – The use of recycled concrete products provides a cost saving to the building and construction sectors because materials they are competitively priced when compared to a quarried alternative.

DENSITY ADVANTAGE – Recycled products are less dense than a quarry alternative therefore by weight they are a cheaper alternative per unit volume filled. This also has an additional flow on cost saving with regard to transport efficiencies.

ENVIRONMENTAL – Considered a 'green' construction material, the use of recycled concrete/bricks has numerous environmental advantages by diverting waste concrete away from landfill and reducing environmental impacts associated with quarrying of virgin natural material.

SUSTAINABILITY – Use of recycled aggregate produces lower greenhouse gas emissions, reduced quarrying of natural materials and reduced need for new landfills.

VERSATILITY – Recycled aggregate can be used for a variety of applications from construction and road base applications, to landscaping and domestic uses.

DURABILITY – Recycled materials have been proven to be as durable as quarried natural material and are required to meet and perform to the same geotechnical criteria required of quarried material.



PM1/20RM - Base Course

(30 & 40 mm also available upon request)

Suitable for:

Class 1 Pavement Materials are intended for use as pavement layers on high trafficked roads.

These products are equivalent to Class 1 Quarried Pavement Materials.



PM2/20RG - Sub Base

(30 & 40 mm also available upon request)

Suitable for:

These products are intended for use as pavement layers on medium trafficked roads or sub base layers on high trafficked roads.

These products are equivalent to Class 2 Quarried Pavement Materials



PM3/20RG - Sub Base

(30 & 40 mm also available upon request)

Suitable for:

These products are intended for use as pavement layers on low trafficked sealed roads or sub base layers on medium trafficked sealed roads.

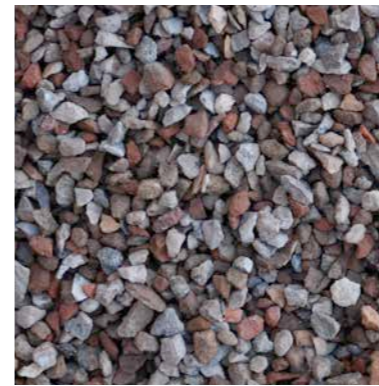
These products are equivalent to Class 3 Quarried Pavement Materials.



P10mm & 20mm Concrete Aggregates

Suitable for:

These products are used in the manufacture of sustainable 'green' concrete as an alternative to quarried materials.



10mm & 20mm Drainage Aggregates

Suitable for:

These products are suitable for use as drainage aggregate in back fill behind retaining walls and other drainage aggregate applications. They can also be used in decorative and landscaping applications



Non Specified Rubbles & Fills

Suitable for:

These products are intended for use as a general engineered fill and can be supplied as a graded crushed product from 20mm up to 75mm or as a certified Waste Derived Fill.



7mm Sand

Suitable for:

This product is used as packing sand for trench work and as under floor or engineered fill. It is used in the manufacture of sustainable 'green' concrete and is suitable for use under concrete or pavers.

SAMPLING SPECIFICATION

Sampling of our products is undertaken in accordance with 2015 DPTI Specification Part R15 Supply of Pavement Materials - which incorporates the following standards and methodologies.

- AS 1141 Sampling and Testing Aggregates
- AS 1289 Methods for Testing Soils for Engineering Purposes
- AS 2758 Aggregates and Rock for Engineering Purposes
- Road and Traffic Authority NSW Test Procedure

Sampling of the materials located at Wingfield and Lonsdale are collected in accordance with DPTI sampling specification TP226 Sampling of Soil, Aggregates and Rocks - to ensure a consistent and universal sampling approach. Sampling is carried out by a ResourceCo Environmental Officer or approved laboratory technician to be sent for laboratory analysis.

Once at the laboratory, samples obtained in the field are prepared in the laboratory via a process of splitting and subsampling depending on the analysis required in accordance with AS1289 Method 1.1.

Additional sample is retained at the laboratory for DPTI compliance auditing at a later date if required.

Tailored Sampling Plans

In addition to ResourceCo's regular sampling and analysis undertaken, tailored sampling and certification can be arranged to meet specific contract specifications. This may include specialized testing not included under the current DPTI requirements or individually lotted and certified material assigned to each project.

Industry Associations

ResourceCo endeavors to maintain at the forefront of industry standard through its corporate sponsorship and association with the following waste industry organisations.

- Waste Management Association of Australia (WMAA)
- Australian Council of Recycling (ACOR)
- KESAB
- Civil Contractors Federation (CCF)
- Master Builders Association of SA