

# ROLLER- COMPACTED CONCRETE



DAMS

PAVEMENT



# WHAT IS ROLLER- COMPACTED CONCRETE

## A CONCRETE PAVEMENT WITH A TWIST

While considered a concrete, it differs from Conventional Concrete in design and construction. Roller Compacted Concrete (RCC) is a very low slump concrete with a dense material gradation which achieves strength through cemented, tight granular interlocking assisted by placement with high density pavers and rollers.

### FEATURES

- Economical strong pavement
- Low water content (no free water)
- Lower cement content (achieves same strength)
- Rapid construction cycles
- Long service life
- Quick access to operational service
- No rutting, shoving or pushing
- Low maintenance
- Mass placement

### DAMS

Since the early 1980's Aran has been involved with and promoted Roller-Compacted Concrete (RCC) dam construction on a global scale, greater than 200 dams and weirs.

They are ideal for rapid mobilisation to remote or compact sites where large volumes of RCC are needed in short construction periods. Our mixing systems have been proven to excel in the production of this relatively low moisture, dense material on projects such as:

- Batu Hampar Dam, Malaysia
- Saluda Dam, South Carolina, USA



### PAVEMENT

Originally used in logging yards, RCC developed its credentials as a strong and durable pavement. The application of RCC Pavements now extends to include:

- Bike and Hike Trails
- Street and Roadways
- Highway Shoulders and Highways
- Ports
- Distribution Centers
- Industrial and Manufacturing Facilities
- Military Bases





Aran mobile mixing plants have long set the standard in ultra mobility and excellent mixing performance.

## ENVIRONMIX - RCC OPTIMISED HIGH INTENSITY MIXER

- Accurate and high performance, mixes from 150 – 300 cubic meters per hour
- Hands free remote operation, option
- Aran Easy Clean features
- Ultimate Mobility-no requirement for cranes or concrete foundations
- Easy mixing of difficult materials
- Travels safely at highway speeds
- Safety and servicability



## MODULAR PLANT - BUILT FOR PERFORMANCE

- Advanced electronics with simple operator friendly interface
- Easy to clean and easy to service
- Rapid Assembly
- Efficiently transported – all modules are 40ft certified ISC shipping containers
- Mix up to 400 compacted cubic meters of concrete per hour
- Variable load sizes – batch quantities
- Excellent accuracy and proportioning of ingredients
- Capable of blending 3-6 primary feeders, 2-3 binders, additives & water





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