



Reinforcement – Basal Maize / Wheat Milling Complex Beira, Mozambique

Case Study

Project: Maize Wheat Milling Complex, Munhava, Beira, Mozambique

Client: Meric Industries Ltd

Date: November 2003

Consultant: L Wong

Product: Rock PEC™ 150

Contractor: Meric Industries Ltd

Quantity: 98 000 m²

A new maize/wheat milling complex was constructed on existing rice fields at Munhava near Beira in Mozambique. The ground water level was approximately 300 mm above the existing ground, with in-situ, soft, sandy soils with a 20 % clay content. The in-situ soils have a low shear strength of 5 to 10 kPa.

A 2.0 mt high fill embankment level platform was constructed to raise the level well above water level. The embankment incorporated two layers of **Rock PEC™ 150**, placed in 1.0 mt lifts, with the principal strength direction at 90°. The **Rock PEC™ 150** was selected based on a 1.3 kN/m² soil dead load and a 14 kN/m² dozer live load. The future building was placed on a piled foundation.

