

Down Under Update from Beca Airports

New A380 Concrete Pavement at Auckland Airport

The commencement of scheduled A380 operations in early February 2009 at Auckland Airport marked an important milestone both for Auckland Airport and for the Beca Airports Team. It was the result of several A380 airfield projects implemented over the past years at Auckland Airport with the most recent being the completion of a new aircraft stand (Stand 19). In order to improve operational flexibility of the stand it has been configured to cater for either one wide bodied A380 aircraft and for two narrow bodied jet aircraft.

The pavement of the new aircraft stand consists of approximately 8,000m² of 500mm thick, 6MPa flexural strength concrete on a base layer. The concrete slabs were typically laid on 6m x 6m pattern with keyed longitudinal construction joints being provided. Transverse contraction joints consisted of 600mm long x 40mm diameter

dowel bars at 400mm centres. Slabs containing fuel hydrants and other services structures have been partially or wholly reinforced. All concrete joints were sealed. The concrete works were undertaken by Brian Perry Civil using a Bidwell 5000 concrete paving machine with Kaipara Ltd laying the base and sub base layers. To reduce the environmental impact of the works, recycled crushed concrete from previous projects has been used in the sub course of the new pavement.

Beca Airports are working on a number of airport projects throughout New Zealand, Australia and the Pacific Islands and hopefully will provide updates on our concrete paving projects in future editions.

- For further information please contact: John Marsh (john.marsh@beca.com) or John Cairns (john.cairns@beca.com) or Paul Houston (paulh@fcc.co.nz).



Bidwell 5000 Concrete Paving Machine in operation



Construction works with the new Pier B in the background

ADVERTISEMENT

Power Slipformers Ltd.
UK & Eire Power Curber Inc Dealer

Power Curber 5700-C

Roocroft Fencing with Power Curber 5700-C laying Britpave spec barrier - M55
Contact: sales@powerslipformers.com T: 01524 762 762 F: 01524 762 177