



Heathrow - A380 Taxiway Pavement Investigation

THE TASK

TPS was commissioned to undertake an airfield pavement investigation of 25 kilometres of primary taxiway at Heathrow Airport. The taxiways to be surveyed were divided up into seven Priority Areas based upon initial assessments of the routes most likely to be trafficked by the new A380 aircraft upon its introduction to Heathrow Airport in 2006.

The objectives of the commission were:

- To determine the structural capacity of the existing pavements
- To assess the strengthening requirements (bituminous pavement overlays or concrete pavement reconstruction) necessary to accommodate the A380 aircraft.

The pavement investigation and analysis comprised the following:

- A Pavement Condition Index (PCI) survey
- A pavement deflection survey by Heavy Falling Weight Deflectometer (HWD)
- Pavement coring and Depth Cone Penetrometer (DCP) testing to determine Pavement construction and strength of subgrade
- Pavement analysis using HWD results, core and DCP data based upon BAA design methodology
- A calculation of Pavement Classification Number (PCN) for each individual construction
- Determination of pavement strengthening requirements

PROJECT PROFILE



CLIENT

Heathrow Airport Ltd

PROJECT VALUE

£500k

SERVICES

- Project management
- Pavement Investigation and analysis