

CASE STUDY

JIB CRANE FOUNDATION – CASCADE

BRISBANE, QUEENSLAND

PLATIPUS MECHANICAL EARTH ANCHORING SYSTEM



ENGINEER	CostineRoe Consulting
CLIENT	Commercial & Industrial Property Pty Ltd
LOCATION	Cascade, Brisbane, Queensland
SYSTEM USED	Platipus Earth Anchoring System – Permanent Foundation

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GEOSYNTHETIC
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The project required the installation of Platipus Anchoring Systems to provide additional holding down requirements for a new 1.5 ton jib crane arrangement located in an industrial factory operation in Brisbane.

Design & Construction

CostinRoe designed a jib crane baseplate and footing incorporating 4no. Platipus B6 Anchor Systems. 200mm diameter core holes were initially drilled into a 300mm thick concrete slab to facilitate mechanically driving the Platipus B6 Anchor Systems to depths of 2.5m. Working Load requirements of each anchor system was 85kN with each anchor system being on-site Proof Load tested to 100kN.

The Platipus Earth Anchoring System was chosen as the preferred solution to stabilise and provide a holding down force to the 1.5 ton jib crane arrangement for the following main Features & Benefits:-

- ‘Buildability’ & ease of installation – all anchor systems were installed and tested within an 8 hour working window
- The Platipus anchor system and installation equipment was available from Cirtex Australia who provided full technical advice and on-site support
- Overall cost savings over traditional solutions – reduced concrete foundation requirement



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