

Case Study 1 - Dincel delivers a watertight solution for Charles Bank's Crocodile Farm

Constructing a crocodile breeding farm is not your everyday project. Ensuring breeding enclosures are structurally secure and waterproof are two important considerations. For the contractors responsible for building the new Charles Bank Crocodile Farm near Townsville, navigating a remote location and selecting materials which protect the health of the crocodiles required a building solution that ticked multiple boxes.



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Figurehead Construction chose to use Dincel Construction System, a lightweight, waterproof modular formwork made from a durable ridged polymer. The product uniquely clicks into position to quickly build structural walls and columns, filled with ready mixed concrete on site. Suitable for above and below ground applications, the prefabricated forms, manufactured in Australia, are watertight to eliminate the need for an additional waterproofing membrane, as would be the case with conventional concrete walls. The adaptability of the Dincel system was an integral part of the project's success, resulting in easy handling and installation for the two on site construction workers, and a cost effective solution that kept the project budget in check.

Normally a remote off road location would have caused access issues if precast concrete or concrete blocks had been specified. These are heavy to transport and, logistically, cranes would not have been able to navigate the off road terrain. The lightweight Dincel Construction System was easy to deliver into the rough territory, with the trucks able to come right up to the site.

According to Mark Semmens, Contract Administrator at Figurehead Construction, "We were looking for a product that could solve a number of challenges. Dincel offered all the benefits of being lightweight, waterproof and easy to install. In fact, the installation could be made right up against the outer walls of the excavation and eliminated the need for additional waterproofing."

The crocodile farm also required a solution proven to be suitable for aquaculture, presenting no risk of toxins leaching into the water. Dincel was the perfect system, made from a PVC polymer that contains no heavy metals, VOC or contaminants that could affect the crocodiles. The CSIRO confirmed Dincel as offering the best possible water quality, with volatile matter 50 times better than the Green Star threshold.

Dincel Construction System is the world's first waterproof and structural wall which has been tested and approved by the CSIRO. Basement walls, water tanks and swimming pools are just some of the subterranean applications where the Dincel Construction System can be used to provide waterproof, crack and joint free walls that are also termite resistant and rot proof.

Dincel Construction System is an Australian made and internationally patented product that is growing exponentially in popularity. It offers builders and developers up to 50 per cent faster construction time and up to 43 per cent in cost saving as a load bearing engineering system. It was recently awarded the Best Environmental Practice (BEP) Approval Mark after meeting the strict Green Building Council Best Practice Guidelines for PVC.

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