

Tensar InterAx® saves time and cost on luxury Gold Coast development



The Mantaray Marina Residence Working Platform

Queensland, Australia

CLIENT'S CHALLENGE

This reclaimed site presented significant challenges to the development with the presence of loose sandy soils and debris built up over a prolonged vacancy. The client needed a working platform that was safe, but also economical to build, however the initial proposals with biaxial geogrids didn't offer enough value for the project. This prompted the contractor to seek advice and proposals from Tensar for an engineered solution to take into account project conditions whilst also offering suitable savings to the projects.

TENSAR SOLUTION

Tensar's T-Value approach enabled working platform design with 55% reduced thickness despite challenging ground conditions. This methodology accurately models the Tensar InterAx® geogrid behaviour within mechanically stabilised layers, providing a cost-effective, technically validated solution. Contractors operating on the platform successfully installed hundreds of piles, demonstrating its practical effectiveness. The single Tensar InterAx® geogrid layer optimised platform design while maintaining structural integrity, delivering efficient ground stabilisation in difficult site conditions. Site-specific CBR testing showed a CBR of 85% on the platform surface, further validating the integrity and performance of Tensar's mechanically stabilised working platform solution.

B E N E F I T S

- **Platform thickness reduced** by 55% through optimised design
- **Improved ground performance** using 85% CBR aggregate material
- **Enhanced stability** achieved with a single-layer of Tensar InterAx geogrid

Tensar®

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PROJECT DETAILS

Constructed in
August 2024

Contractor
Multiplex

Product
Tensar InterAx® geogrid

Road, Pavement, & Trafficked Areas | No. 521

"We installed several hundred CFA foundation piles and had no issues drilling or extracting through InterAx. We would recommend this product to our clients moving forward."

Charlie Ford
Project Manager | ASP Drilling

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