

# Tensar® InterAx® supporting a beachfront concrete slab



## Wynnum Breakwater, Brisbane City Council

Waterloo Esplanade, Wynnum, Brisbane City, Australia

### CLIENT'S CHALLENGE

Brisbane City Council required a beachfront concrete slab constructed over a sandy base that could achieve 50kPa bearing capacity whilst containing any settlement. The coastal location and sandy subbase presented significant structural challenges for the concrete slab installation.

### TENSAR SOLUTION

Tensar proposed a mechanically stabilised layer incorporating two layers of Tensar InterAx geogrids in the well graded granular subbase material. This dual-layer configuration provided the necessary stabilisation to achieve the required bearing capacity and effectively mitigate differential settlement, improving long-term stability of the beachfront concrete slab structure.

## BENEFITS

- **Achieved 50kPa bearing capacity** on sandy subbase
- **Mitigated settlement** for beachfront concrete slab
- **Enhanced structural stability** for coastal conditions
- **Efficient installation** with dual-layer geogrid system

**Tensar®**  
A Division of CMC

### PROJECT DETAILS

Constructed in  
**May 2025**

Project Owner  
**Brisbane City Council**

Contractor  
**Queensland Civil Group**

Consultant  
**Scot Service**

Product  
**Tensar® InterAx®**



Tensar® InterAx® laid on sandy subbase for beachfront slab foundation.

Roads, Pavements & Trafficked Areas |

No. 539

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