

Soil reinforcement to suit project conditions



Hyatt Regency Ho Tram Resort & Residences

Ba Ria – Vung Tau Province, Vietnam

CLIENT'S CHALLENGE

The project, situated beside the East Vietnam Sea in Southern Vietnam, raises client concerns about long-term chemical and environmental resistance of reinforcing components for retaining wall structures. Tensar uniaxial geogrids are manufactured from high-density polyethylene and can resist extremely aggressive chemical environments. Therefore, the client then contacted Tensar representative to seek an alternative solution.

TENSAR SOLUTION

Tensar suggested using the RE500 series HDPE uniaxial geogrids, which have proven to perform stably in long-term marine environmental conditions. The durability of Tensar's geogrids has been rigorously tested through extensive assessments and lifetime studies. A single-tiered gabion retaining wall, with a maximum height of 4 metres, was then designed and introduced to the customer. The geogrid layers were sandwiched between gabion units and connected with gabion units using polymer bodkin, ensuring enhanced connection capacity rather than relying only on the frictional component. Using site-won material behind as fill reinforced with HDPE uniaxial geogrid brought more benefits in construction cost and time.

B E N E F I T S

- **High durability against** the marine environment
- **Achieving an attractive** appearances
- **Reliable structure with lower costs** and construction time

Tensar®

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PROJECT DETAILS

Constructed in

August 2022

Client

Morning Sun Travel Trade Co., Ltd

Contractor

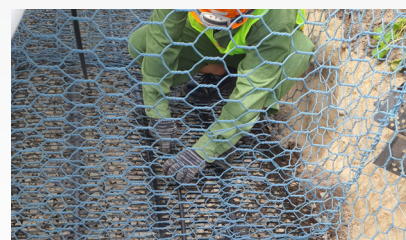
Coteccons Group

Consultant

VTCO Investment Co., Ltd

Product

Tensar uniaxial geogrid



Uniaxial geogrid installation and bodkin connection at the site

Walls and Slopes | No. 523

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