

Modern breakwater solution of geotextile tube in UAE

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Abstract

In 2011, the UAE Government announced the construction of a new fishing port in Ras Al Khaimah City including new breakwater structure with a total length of 700m. The breakwater encloses and protects the entire area of the new fishing port. Due to the economic slowdown which started in 2009, the Government was looking for ways to reduce cost spending and started to look for alternatives based on value engineering. Considering all factors, a design using geo-textile tubes filled with dredged sand from the seabed as core material for the breakwater, was proposed. The circumference of the geo-textile tubes varies between 8.6m to 12.9m and lengths between 10m to 50m long to form 4 layers of barriers as a breakwater. Currently this is the largest scale geo-textile tube breakwater application in the UAE.

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