

cuttable • non-corrosive • non-magnetic • non-conductive • high strength • light weight

Marsa Al Seef Development, Dubai, UAE

Reinforcement of hundreds of corrosion resistant formwork boxes on pile caps on the Dubai creek.

The Marsa Al Seef project is a development located on the shore of the Dubai Creek in the popular Bur Dubai heritage tourist area of Dubai. The waters in the Dubai creek are tidal and highly saline leading to an aggressive environment with challenging construction issues.

Several large buildings and infrastructure elements are constructed in the shore area based on hundreds of bored piles with a 1,200 mm diameter.

To achieve the durability of the structures in this highly corrosive area, the pile head foundation plays a key role. The pile head is designed with a completely durable mateenbar™ reinforced precast formwork box to protect the underlying structure.

To achieve the service life requirement, the consultants Atkins and CH2MHill specified the use of mateenbar™ FRP Rebar for the reinforcement of the different types and shapes of formwork boxes. Pultrusion Composites supplied straight and bent mateenbar™ reinforcement to the project and designs the formwork box reinforcement for the installation of mateenbar™.

mateenbar™ is a rust-free, salt resistant reinforcement rod, and is an ideal application for marine environments.

mateenbar™ is made from a high performance composite of vinyl-ester resin & corrosion resistant ECR glass fiber.

Client: Meeraas Development
Consultant: Atkins / CH2MHill
Contractor: Dutco Balfour Beatty
Year: 2015
Location: Dubai, UAE

