



El Ain El Sokhna Supercritical Power Plant

- **MateenDowel** GFRP Bar Supplier & Technical Adviser: Pultron Composites.
- Client: East Delta Electricity Production Company, Egypt.
- Contractor: Besix / Orascom Construction Industries
- Designer: Power Generation Engineering & Services Co,
- Completion Date: 2012.

Key Facts

- **MateenDowel:** Diameter 38mm
- Bar Length: 2,500mm.
- Bar Spacing: 200mm.
- Design Life: 100 years.

Project Brief

To provide security rods for the water intake for a 2 x 650 Mega Watt Gas / Oil Fired Power station.

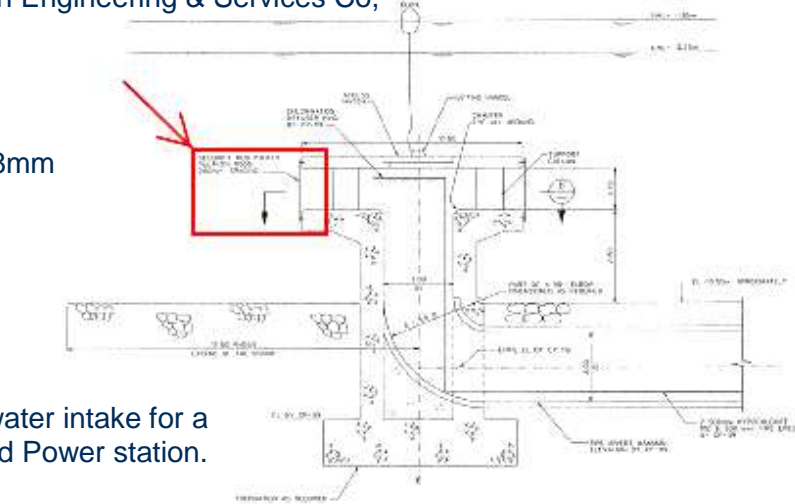
Required service life of the **MateenDowel** high durability rods is 100 years.

MateenDowel security rods were specified to resist design wave loads, potential impact loads from large objects, fish, and people and to prevent flow induced vibration.

MateenDowel is a rust-free, salt resistant and non-corrosive rod, and is an ideal application for marine environments.

MateenDowel is manufactured by Pultron Composites utilizing high performance composite materials including vinylester resin and ECR glass fibers.

High quality materials and over 30 years of Pultron's production experience provide a product and service you can trust.



The leading mechanical properties of MateenBar have seen it used in many marine projects, both in the GCC region and in other parts of the world as a non-corrosive reinforcement and to provide substantial cost savings compared to stainless steel in extreme environments.



Advantages of MateenDowel

- 100% corrosion free
- Non-conductive and non-magnetic
- 50-60% lower price than stainless steel
- Low thermal conductivity
- ¼ the weight of steel
- Tensile strength twice that of steel
- Cuttable
- Low carbon imprint and long life product
- Reduced whole of life project costs.



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