



Construction Case study

Project: KSA West Coast

The project of constructing small desalination plants on the West Coast of Saudi Arabia using Real Safety FRP (non-metallics) materials.



The Ministry of Environment of Saudi Arabia is building sea water desalination plants in many cities in order to meet daily water needs.

The project consists of eight SWRO desalination plants, spanning the western coast of the Kingdom across a distance of 1,800 km.

The consortium, led by Advanced Water Technology Company consisting of four companies: AWT, Rawafid, Al-Fatah and SETE, was chosen to design and implement the project owned by the 'Saline Water Conversion Corporation'.

- The total production capacity of all the stations in the project is 238,000 cubic meters per day
- The project offers alternative technologies and systems that contributed to the project's unprecedented achievement by reducing electrical consumption to 3kWh/m³
- The project was completed in 9 months

Details of total FRP (non-metallics) materials supplied by REAL SAFETY

Total summary	Profile details Qty in meters
FRP angle connector	102 X 102 X 9.5mm 763.45m 2.90t
FRP I-Beams	203.2 x 101.6 x 9.52mm 7649.11m 52.01t
FRP C-Channel	203.2 x 55.56 x 9.53mm 3714.70m 21.14t
Deck Profile (Grit top)	DP608x28.7x3.3mm 17,946.00m 80.46t 156511.70meter 156.51t





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