

## Solar Salt **Production Site** Winch Tower & Bridge

Particular attention had to be paid to the extremely corrosive environment the winch tower would sit in - this meant that the majority of conventional materials would be eliminated for selection.

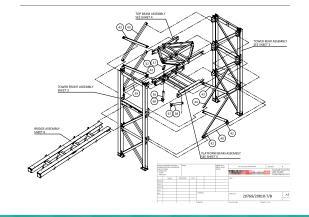
Our client's engineering team worked in close conjunction with our FRP design and development personnel throughout the whole project to build a lightweight, corrosion resistant and cyclone rated structure that was capable of supporting a heavy duty winch with a S.W.L. of 5 tonnes. The resulting construction consisted of all members made of Fibreglass, joined together using 316 grade stainless steel bracketry

As it was necessary to have personnel access on the winch, a bridge section was developed certain that all personnel accessing the tower would enjoy safe and secure footing in conjunction with RailEX®, Treadwell's FRP hand railing system.

The structure was fully trial assembled and then partly dismantled and packed into modules to be delivered on time in full.



PROJECT INFORMATION	
Project Category:	ArchitEX <sup>™</sup> structure
Scope of Work:	Winch tower at solar salt production facility
Treadwell Products:	ArchitEX™ FRP Structural Profiles EX-Series® GratEX® FRP Square Mesh Grating EX-Seires® RailEX® ROUND FRP Handrail



## Treadwell Solution:



ArchitEX™ FRP columns, beams and other supporting profiles were specified as the skeleton of the structure. GratEX® FRP grating and RailEX® FRP handrail were supplied to provide safe access. Specially formulated resin was categorically determined to withstand the corrosion.







Given the nature of FRP, any system utilising it is virtually



FRP is high in strength. Based on the resin formula and heavy duty winch