

# FRP Pump Support & Access Structure

**Kalgoorlie, Western Australia** – This fully Australian owned gold mine facility is a world class asset located adjacent to the City of Kalgoorlie-Boulder, approximately 600km east of Perth. The 1893 gold rush resulted in the discovery of the Golden Mile, one of the richest gold deposits in the world, producing more than 60 million ounces of gold.

As part of upgrades, pump support and access structures were needed for a Warman pump. Treadwell was engaged to supply the FRP products for these upgrades.

## Project Challenges

- Traditional steel products required an intensive blast and paint regime due to corrosion from the reagents used in the mineral extraction process.
- There was a high volume of dust and debris that tended to stagnate on fixtures. The selected products had to maintain integrity in this exposure.
- Being exposed to the harsh climate, selected material had to have low thermal conductivity for user safety.

## PROJECT INFORMATION

Project Category:	Mining Infrastructure
Scope of Work:	Supply FRP products
Treadwell Products:	EX-Series® GratEX® FRP Square Mesh Grating EX-Series® RailEX® ROUND FRP Handrails ArchitEX™ FRP Structural Profiles



## Treadwell Solution:

- 1 The resin systems used in Treadwell's FRP products are customised to suit its application. This includes corrosion resistant properties, with a fire retardant formula.
- 2 The aperture of the GratEX® FRP Square Mesh allows maximum fall through of debris, minimising the impact of stagnant debris.
- 3 Treadwell's FRP products are RF transparent and has low thermal and electrical conductivity, ensuring user safety.
- 4 FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.
- 5 Being lightweight and easy to install, FRP is very manageable during construction.
- 6 Given the nature of FRP, any system utilising it is virtually maintenance free, keeping maintenance costs to a minimum.