

Biofilter Upgrade

A major contributor to the Australian agricultural industry, our client runs a plant that produces renewable fuels and high-performance feed ingredient solutions. This recycling plant processes animal by-products, water and plant waste. They manage ponding systems on their site that produces biogas as well as treats water to a reusable standard. They are committed to ensuring positive environmental performance across all areas of their business.

The internal structure of the biofilter had deteriorated and needed to be replaced. Treadwell was engaged to supply an FRP solution that would integrate seamlessly with their processes, taking into consideration the environment the products would be applied in.

Project Challenges

- Constant exposure to corrosive environment
- Maintenance of the structure in the long run was a concern based on previous experience with traditional materials.
- Grating had to allow debris to pass through.
- Grating also had to facilitate proper ventilation.

PROJECT INFORMATION

Project Category:	Biofilter Upgrade
Scope of Work:	Supply of grating and structural support profiles
Treadwell Products:	ACCESS SYSTEMS GratEX® FRP Grating ArchitEX™ Structural Profiles

Treadwell Solution:



1 The ACCESS SYSTEMS EX-Series® GratEX® FRP square mesh grating allows for debris to fall through as well as provide proper ventilation to prevent a build up of gas.

2 The ArchitEX™ I-beams provided the support for the grating.

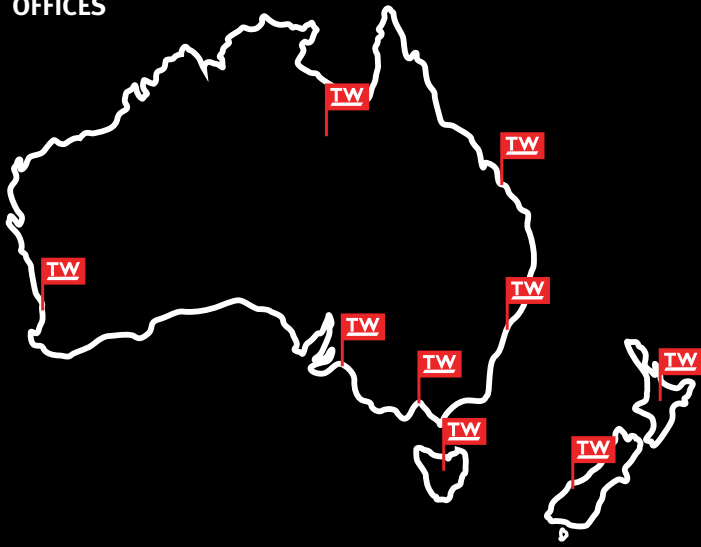
3 This FRP solution was specified as it was tested to withstand long term exposure to corrosive environments.

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.

OFFICES



ABOUT TREADWELL

At Treadwell Group, our core business divisions have been developed utilising the latest fibreglass reinforced plastic (FRP) technology. With constant innovation and evolution of our offerings, we grow in competence with each experience in delivering unparalleled solutions to a diversified index of industries which include the water and wastewater, mining, oil and gas, public infrastructure, marine sectors. The progression of our products has been focused on ensuring extended design life in varied applications, enabling us to support our continuing commitment to satisfy and add value to our client's endeavours.

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