

Cairns Aquarium

When the Cairns Aquarium was originally built, as part of the requirements, Treadwell's ACCESS SYSTEMS and ArchitEX™ structural FRP solutions, including fasteners, were specified as part of the construction. RailEX® handrails and EX-Series® stair treads were installed to ensure maximum safety in an environment that was continually exposed to moisture.

Project Challenges

- Indoor marine environment.
- Customised extra wide panels were required in certain areas of the structure.
- Indoor installation meant that it had to be able to be installed without heavy machinery.

PROJECT INFORMATION

Project Category:	Safe access for aquarium staff
Scope of Work:	Design and install structural profiles, stairs and handrails
Treadwell Products:	ArchitEX™ Structural Profiles EXSemble FRP Fasteners ACCESS SYSTEMS EX-Series® Stair Treads RailEX® ROUND Premium FRP Handrail

Treadwell Solution:



1

High performance ArchitEX™ structural profiles and RailEX® handrails were specified in building the structure and providing a sustainable solution over traditional materials.

2

ACCESS SYSTEMS EX-Series® stair treads moulded with a solid leading-edge stair nosing were used. This increases the rigor and sturdiness of the entire leading edge ensuring dependable performance in high traffic situations.

3

Treadwell's ArchitEX™ EXSemble FRP Fasteners were utilised to provide an extremely durable solution for this hyper-corrosive installation.

4

FRP is simply fabricated and modified on site. This means there is no need for any hot works permit.

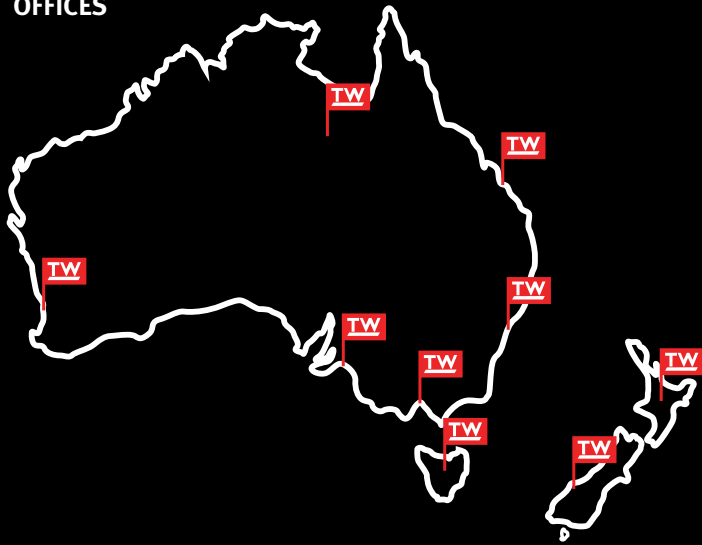
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Being lightweight and easy to install, FRP is very manageable during construction.

6

Given the nature of FRP, any system utilising it is virtually maintenance free, thus keeping maintenance costs as low as possible.

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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