

## ArchitEX™ Permanent FRP Formwork for Rail Platform Upgrade

Treadwell was contacted by an NSW Alliance to provide a sacrificial formwork that could be installed on top of the existing platform. This then needed to be backfilled with concrete. In addition to supplying the FRP formwork itself, Treadwell was also able to provide the engineering certification required for the unequal leg angle to be used for the project.

### Project Challenges

- Formwork had to be non-conductive to ensure safety.
- Structural profile was sacrificial but had to be able to maintain integrity while supporting concrete setting.
- Material had to be non-corrosive.
- Whilst maintaining structural strength, the material also had to be lightweight and easily site adjustable.

### PROJECT INFORMATION

Project Category:	Rail Infrastructure
Scope of Work:	To provide sacrificial formwork
Treadwell Products:	ArchitEX™ custom structural sections.

### Treadwell Solution:



1

Treadwell's high performance ArchitEX™ premium grade unequal leg angle profile was utilised.

2

Engineered corrosion resistant fibreglass resins.

3

Custom manufactured tooling designed fit for purpose to ensure that all concrete is encapsulated.

4

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

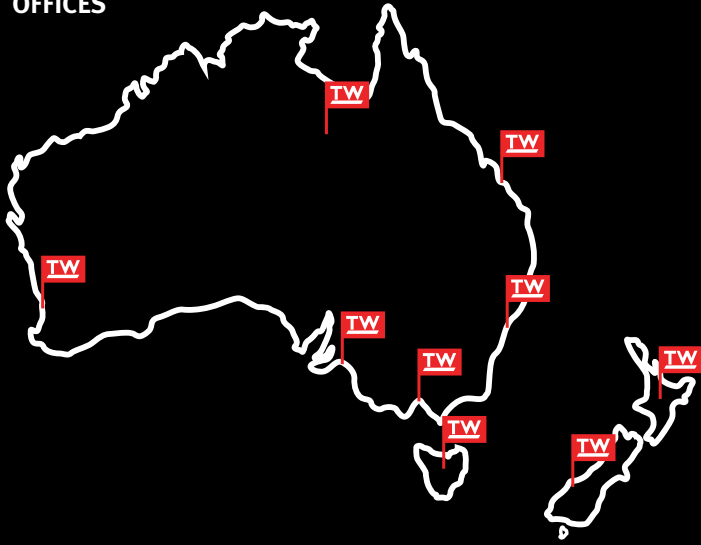
5

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

6

Given the nature of FRP, any system utilizing 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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58 DEEDS ROAD  
NORTH PLYMPTON, SA 5037

▶ **STRATHALBYN (FACTORY & WAREHOUSE)**

22 DUNREATH ROAD  
STRATHALBYN, SA 5255

**NEW SOUTH WALES**

▶ **SYDNEY (DISTRIBUTION CENTRE)**

2 COAL PIER ROAD  
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▶ **SYDNEY (OFFICE)**

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SYDNEY OLYMPIC PARK, NSW 2127

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BALL PL  
EAST WAGGA WAGGA, NSW 2650

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**New Zealand**

**NORTH ISLAND**

▶ **AUCKLAND (OFFICE)**

40 ONEHUNGA MALL  
ONEHUNGA, AUCKLAND 1061

**SOUTH ISLAND**

▶ **GREYMOUTH (OFFICE)**

10 CHESTERFIELD STREET, BLAKETOWN  
GREYMOUTH 7805

**Australia**

P 1800 246 800      sales@treadwellgroup.com.au  
F 1300 763 521      treadwellgroup.com.au

**New Zealand**

P 0800 246 600      sales@treadwellgroup.co.nz  
F 0800 244 600      treadwellgroup.co.nz