

## Sturt River Linear Park Pedestrian Bridges

Sturt River Linear Park in the Coromandel Valley, South Australia is part of a 30 year masterplan for recreational activity for Greater Adelaide. The third stage was recently completed, allowing for easy and safe commute for pedestrians, cyclists and equestrian use. The future stage of this masterplan will see a continuous trail link all the way to the Patawalonga Basin in Glenelg North. Bridges were constructed at river crossings to provide the community with the opportunity to enjoy the views of the wildlife and rock foundations along the river.

Treadwell was engaged to design, engineer and supply three bridges, complete with collapsible handrail system for major flood events. This also included an additional boardwalk to complement one of these bridges.

### Project Challenges

- The bridges are designed withstand 1:100 year flood events.
- The structure would be permanently exposed to the outdoor environment.
- The structure had to meet specific compliance codes.

### PROJECT INFORMATION

Project Category:	Recreational Public Infrastructure
Scope of Work:	Complete supply of 3 pedestrian Bridges
Treadwell Products:	EnviroTREAD™ ACCESS SYSTEMS GratEX® FRP Mini Mesh Grating ArchitEX™

### Treadwell Solution:



1

Shear pin bolts were used on the Handrail posts stanchions. This allowed the railings to be collapsible in the event of flooding, minimising flood damage.

2

GratEX® FRP Mini Mesh is constructed with an anti-slip surface, corrosion resistant properties and UV inhibitors. This allows for enhanced safety for the user, and assures structural integrity even in this exposed application.

3

This structure was constructed according to the relevant compliance codes for pedestrians and cyclists.

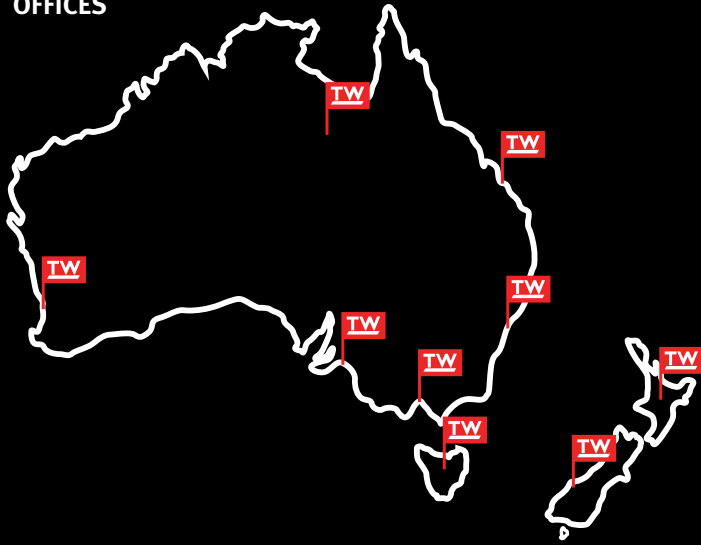
4

As FRP is easily modified on site without the need for any hot works permit, fire risk concerns are eliminated.

5

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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58 DEEDS ROAD  
NORTH PLYMPTON, SA 5037

▶ **STRATHALBYN (FACTORY & WAREHOUSE)**

22 DUNREATH ROAD  
STRATHALBYN, SA 5255

#### VICTORIA

▶ **MELBOURNE (BRANCH OFFICE & WAREHOUSE)**

1/38-40 AYLESBURY DRIVE,  
ALTONA, VIC 3018

#### NEW SOUTH WALES

▶ **SYDNEY (SERVICED OFFICE)**

LEVEL 6, 10 HERB ELLIOT AVENUE  
SYDNEY OLYMPIC PARK, NSW 2127

▶ **WAGGA (REGIONAL OFFICE)**

BALL PL  
EAST WAGGA WAGGA, NSW 2650

#### NEW SOUTH WALES

▶ **SYDNEY (DISTRIBUTION CENTRE)**

2 COAL PIER ROAD  
BANKSMEADOW, NSW 2109

#### QUEENSLAND

▶ **BRISBANE (BRANCH OFFICE & WAREHOUSE)**

LOT 3, 6 GOODMAN PLACE  
MURRARRIE, QLD 4172

#### WESTERN AUSTRALIA

▶ **PERTH (BRANCH OFFICE & WAREHOUSE)**

4 ELMSFIELD ROAD  
MIDVALE, WA 6056

#### TASMANIA

▶ **BURNIE (DISTRIBUTION CENTRE)**

8 RIVER ROAD  
WIVENHOE, TAS 7320

### New Zealand

#### NORTH ISLAND

▶ **AUCKLAND (BRANCH OFFICE & WAREHOUSE)**

110B CRYERS ROAD  
EAST TAMAKI, AUCKLAND 1061

### Australia

P 1800 246 800

[sales@treadwellgroup.com.au](mailto:sales@treadwellgroup.com.au)

F 1300 763 521

[treadwellgroup.com.au](http://treadwellgroup.com.au)

### New Zealand

P 0800 246 600

[sales@treadwellgroup.co.nz](mailto:sales@treadwellgroup.co.nz)

F 0800 244 600

[treadwellgroup.co.nz](http://treadwellgroup.co.nz)