

Sturt River Linear Park Pedestrian Bridge

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.

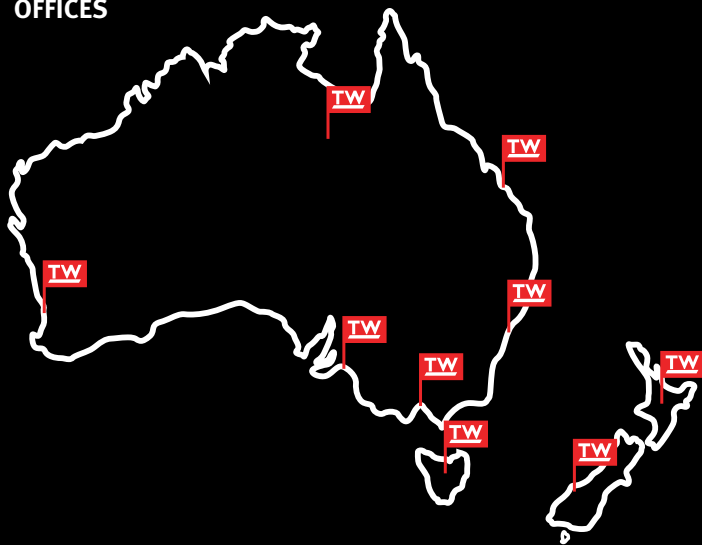
4

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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ALTONA, VIC 3018

NEW SOUTH WALES

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

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BALL PL
EAST WAGGA WAGGA, NSW 2650

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2 COAL PIER ROAD
BANKSMEADOW, NSW 2109

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LOT 3, 6 GOODMAN PLACE
MURRARI, QLD 4172

WESTERN AUSTRALIA

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

4 ELMSFIELD ROAD
MIDVALE, WA 6056

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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

F 1300 763 521

treadwellgroup.com.au

New Zealand

P 0800 246 600

sales@treadwellgroup.co.nz

F 0800 244 600

treadwellgroup.co.nz